

July 3, 2000

MIR 000 022 400

Review of Document Titled, "SRS Environmental QA/QC Program"
(Received on March 28, 2000)

Prepared by Sue Rodenbeck Brauer, Region 5 RCRA Used Oil Expert

Comparison of SRS Environmental QA/QC Program with 40 CFR 279.55,
Analysis Plan

Analytical requirements of 40 CFR 279.53 and 40 CFR 279.72.

(a) Rebuttable presumption for used oil in 40 CFR 279.53.

(1) Whether samples analyses or knowledge will be used:

- generator waste characterization report for knowledge (p. 5-1);
- approval process annually (p. 5-2) does not include total halogens and sets maximum for PCBs as 50 ppm (should be less than 2 ppm to avoid TSCA regulation);
 - Figure 5.C does not list total halogens as a required analysis for approval;
 - Figure 5.D does not specify total halogens or any other analyte;
 - Figure 5.G lists % chlorine (without an identified analytical method) as an analysis performed on each in-bound shipment.
 - Figure 5.H does not specify whether quantitative results are recorded (it's a blank form).

(2) (i) sampling method: Figure 5.E gives sample method as "SW-846" and sample equipment as "coliwasa/tube sampler, weighted bottle, bomb, or tank sampling ports."

(ii) frequency of sampling: Figure 5.G lists % chlorine as an analysis performed on each in-bound shipment.

(iii) methods used to analyze used oil for parameters specified in 40 CFR 279.53 (halogenated hazardous constituents listed in App. VIII of Part 261):

- From Figure 5.C (pre-approval) for waste oils, TCLP Semivolatiles 3510 & 8270, TCLP Volatiles Method 8240, PCBs 8080;
- From Figure 5.C (pre-approval) for process & ground waters, PCBs 8080, TCLP Semivolatiles 3510 & 8270, TCLP Volatiles 8240, Herbicides 8150, Pesticides 3510 & 8080; and,
- From Figure 5.C (pre-approval) for sludges, PCBs 8080, TCLP Semivolatiles 3510 & 8270; TCLP Volatiles 8240.

[Does this cover all the halogenated hazardous constituents in App. VIII to Part 261? NO, pages 5-3 and 5-4 list "semi-

volatiles/volatiles-defined under 40 CFR Section 261.21, the characteristic of ignitability, but the organic constituents for the characteristic of toxicity from 40 CFR 261.24 are listed with the exceptions of benzene, hexachlorobutadiene, and hexachloroethane. It's not a complete list of halogenated constituents from App. VIII of Part 261.]

(3) The type of information that will be used to determine the halogen content of the used oil. It may be inferred that waste profile forms completed by generators and % chlorine by analysis will be used, but the "rebuttable presumption" is not addressed per se in the QA/QC Program.

(b) On-specification used oil fuel in 40 CFR 279.72

A processor/re-refiner may determine that used oil that is to be burned for energy recovery meets the fuel specifications of 40 CFR 279.11 by performing analyses or obtaining copies of analyses or other information documenting that the used oil fuel meets the specifications.

The plan must specify the following if 40 CFR 279.72 is applicable (section 5.6.2 on page 5-21 suggests that SRS Environmental ships on-specification used oil fuel)

(1) whether sample analyses or other information will be used to make this determination (section 5.6.3 suggests that analyses are relied upon to make the determination)

(2) If sample analyses are used to make this determination, then

(i) The sampling method used to obtain representative samples to be analyzed: **Not provided in section 5.6.2 and 5.6.6.**

(ii) whether used oil will be sampled and analyzed after any processing/re-refining. Section 5.6.3 states that on-spec oil will be analyzed for BS&W, Corrosivity, Sulfur Test, Ignitability, toxicity characteristics metals, total halogens (TX), and PCBs.) As summarized in section 5.6.2, RCRA regulations require analysis for As, Cd, Cr, Pb, flash point, and TX. Figure 5.N does not include any metals. Why are there three different representations (5.6.3, 5.6.2, and 5.N) of what metals are analyzed?

(iii) The frequency of sampling to be performed, and whether analyses will be conducted on- or off-site. In Section 5.6.2 on page 5-22, it is not clear who (on- or off-site) performs monthly analyses on each holding tank. In Section 5.6.4 on page 5-22, it

is not clear whether the independent laboratory analyses are conducted on- or off-site.

(iv) the methods used to conduct the analyses. Section 5.6.3 and Figure 5.N are not consistent with respect to flash point determination (ignitability by method 1010 and method 1010 or 1020, respectively).

(3) The information to be used to make the on-spec used oil fuel determination. SRS apparently relies exclusively on analyses.

F:\user\sbrauer\usedoil\sybill\Used Oil Analysis Plan regulatory review.wpd



REPORT OF ANALYTICAL SERVICES

TO: SRS Environmental
3345 Greenfield Road
Melvindale, MI 48122

Report Date: 01/13/00

Lab Number: 00-0015A

Customer P.O. #:

Attn: Gary Berndt

Customer #:

RTI Quote #:

PART / SAMPLE IDENTIFICATION:

Monthly Oil Sampling - Dec/Jan 2000
1 Oil Sample

Received: 01/05/00

Tests Completed: 01/13/00

Reported: 01/13/00

WORK REQUESTED / PERFORMED:

TCLP METALS, F-SCAN, FLASHPOINT, TOTAL HALOGENS
BTU, SULFUR CONTENT, ASH CONTENT, BS&W, PCB

THE RESULTS OF ALL TESTS and/or ANALYSES REQUESTED ARE REPORTED ON THE PAGES WHICH FOLLOW.

Number of pages including this page

7

APPROVED BY:

REPORTED BY:

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CONFIDENTIAL REPORT OF EVALUATION

Submitted by : Gary Berndt

Lab. No. : 00-0015A

Client : SRS Environmental
Melvindale, MI

Report Date : 01/13/00

Sample ID :

Monthly Oil Sampling - Dec/Jan 2000
1 Oil Sample

Object :

TCLP METALS, F-SCAN, FLASHPOINT, TOTAL HALOGENS
BTU, SULFUR CONTENT, ASH CONTENT, BS&W, PCB

Results and Discussion :

SAMPLE IDENTIFICATION

SAMPLE MATRIX

1 - Dec/Jan 2000 1/4/00

Oil

CONFIDENTIAL REPORT OF EVALUATION

Submitted by: Gary Berndt
 Client: SRS Environmental
 Object: TCLP METALS, F-SCAN, FLASHPOINT, TOTAL HALOGENS
 BTU, SULFUR CONTENT, ASH CONTENT, BS&W, PCB

Report Date: 01/13/00
 Lab. No. : 00-0015A

Sample ID: Monthly Oil Sampling - Dec/Jan 2000 1/4/00

| PARAMETERS | METHOD | MDL (ppm) | LOD-S (ppm) | Results (ppm) |
|---------------------------------------|--------|--------------|----------------|------------------|
| F-SCAN (F001-F002) | | | | |
| Tetrachloroethylene | 8260 | 0.001 | 1.0 | ND |
| Trichloroethylene | 8260 | 0.001 | 1.0 | ND |
| Methylene chloride | 8260 | 0.001 | 1.0 | ND |
| 1,1,1-trichloroethane | 8260 | 0.001 | 1.0 | ND |
| Carbon tetrachloride | 8260 | 0.001 | 1.0 | ND |
| Chlorinated Fluorocarbons | 8260 | 0.001 | 1.0 | ND |
| Chlorobenzene | 8260 | 0.001 | 1.0 | ND |
| 1,1,2-trichloro-1,2,2-trifluoroethane | 8260 | 0.001 | 1.0 | ND |
| 1,2-Dichlorobenzene | 8260 | 0.001 | 1.0 | ND |
| 1,3-Dichlorobenzene | 8260 | 0.001 | 1.0 | ND |
| 1,4-Dichlorobenzene | 8260 | 0.001 | 1.0 | ND |
| Trichlorofluoromethane | 8260 | 0.001 | 1.0 | ND |
| 1,1,2-trichloroethane | 8260 | 0.001 | 1.0 | ND |

| PARAMETERS | METHOD | MDL (ppm) | LOD-S (ppm) | Results (ppm) |
|------------------------|--------|--------------|----------------|------------------|
| F-SCAN (F003) | | | | |
| Xylenes | 8260 | 0.003 | 1.0 | 7.4 |
| Acetone | 8260 | 0.001 | 1.0 | ND |
| Ethyl acetate | 8260 | 0.001 | 1.0 | ND |
| Ethyl benzene | 8260 | 0.001 | 1.0 | 1.4 |
| Ethyl ether | 8260 | 0.001 | 1.0 | ND |
| Methyl isobutyl ketone | 8260 | 0.001 | 1.0 | ND |
| n-butyl alcohol | 8260 | 0.001 | 1.0 | ND |
| Cyclohexanone | 8270 | 0.001 | 1.0 | ND |
| Methanol | 8015 | 0.100 | 1.0 | ND |

CONFIDENTIAL REPORT OF EVALUATION

Submitted by: Gary Berndt

Report Date: 01/13/00

Client: SRS Environmental

Lab. No. : 00-0015A

Object: TCLP METALS, F-SCAN, FLASHPOINT, TOTAL HALOGENS
 BTU, SULFUR CONTENT, ASH CONTENT, BS&W, PCB

Sample ID: Monthly Oil Sampling - Dec/Jan 2000 1/4/00

| PARAMETERS | METHOD | MDL (ppm) | LOD-S (ppm) | Results (ppm) |
|----------------------|--------|--------------|----------------|------------------|
| F-SCAN (F004) | | | | |
| o-Cresol | 8270 | 0.001 | 1.0 | ND |
| m-Cresol | 8270 | 0.001 | 1.0 | ND |
| p-Cresol | 8270 | 0.001 | 1.0 | ND |
| Nitrobenzene | 8270 | 0.001 | 1.0 | ND |

| PARAMETERS | METHOD | MDL (ppm) | LOD-S (ppm) | Results (ppm) |
|----------------------|--------|--------------|----------------|------------------|
| F-SCAN (F005) | | | | |
| Toluene | 8260 | 0.001 | 1.0 | 1.8 |
| Methyl ethyl ketone | 8260 | 0.001 | 1.0 | 27 |
| Carbon disulfide | 8260 | 0.001 | 1.0 | ND |
| Isobutanol | 8260 | 0.001 | 1.0 | ND |
| Pyridine | 8270 | 0.001 | 1.0 | ND |
| Benzene | 8260 | 0.001 | 1.0 | ND |
| 2-ethoxyethanol | 8260 | 0.001 | 1.0 | ND |
| 2-nitropropane | 8260 | 0.001 | 1.0 | ND |

CONFIDENTIAL REPORT OF EVALUATION

Submitted by: Gary Berndt
 Client: SRS Environmental
 Object: TCLP METALS, F-SCAN, FLASHPOINT, TOTAL HALOGENS
 BTU, SULFUR CONTENT, ASH CONTENT, BS&W, PCB

Report Date: 01/13/00
 Lab. No. : 00-0015A

Sample ID: Monthly Oil Sampling - Dec/Jan 2000 1/4/00

| PARAMETER | RESULTS |
|---------------------------------------|---------|
| Ignitability (Flash point, deg. F) | >200 |
| Total Halogens (ppm) | 1331 |
| Total Sulfur (percent) | 0.25 |
| BS&W (percent) | 1.0 |
| Ash Content (percent) | 0.18 |
| BTU (BTU/lb) | 19117 |

TCLP METALS PORTION

| PARAMETERS | METHOD | MDL (ppm) | LOD-S (ppm) | Results (ppm) | Regulatory Limit (ppm) |
|------------|----------------------------|--------------|----------------|------------------|---------------------------|
| METALS | 3020A (Sample Preparation) | | | | |
| Arsenic | 6010 | 0.20 | 1.00 | ND | 5 |
| Barium | 6010 | 0.01 | 0.25 | 3.75 | 100 |
| Cadmium | 6010 | 0.01 | 0.25 | ND | 1 |
| Chromium | 6010 | 0.02 | 0.50 | 1.15 | 5 |
| Lead | 6010 | 0.05 | 1.25 | ND | 5 |
| Mercury | 7470A | 0.01 | 0.01 | ND | 0.2 |
| Selenium | 6010 | 0.20 | 1.00 | ND | 1 |
| Silver | 6010 | 0.01 | 0.50 | ND | 5 |

CONFIDENTIAL REPORT OF EVALUATION

Submitted by: Gary Berndt
 Client: SRS Environmental
 Object: TCLP METALS, F-SCAN, FLASHPOINT, TOTAL HALOGENS
 BTU, SULFUR CONTENT, ASH CONTENT, BS&W, PCB

Report Date: 01/13/00
 Lab. No. : 00-0015A

Sample ID: Monthly Oil Sampling - Dec/Jan 2000 1/4/00

| Parameter | MDL (ppm) | LOD-S (ppm) | Results (ppm) |
|---|--------------|----------------|------------------|
| PCB's (Method EPA 3580A, 3665, 3620A, 8080) | | | |
| Arochlor 1016 | 1.0 | 1.0 | ND |
| Arochlor 1221 | 1.0 | 1.0 | ND |
| Arochlor 1232 | 1.0 | 1.0 | ND |
| Arochlor 1242 | 1.0 | 1.0 | ND |
| Arochlor 1248 | 1.0 | 1.0 | ND |
| Arochlor 1254 | 1.0 | 1.0 | ND |
| Arochlor 1260 | 1.0 | 1.0 | ND |

CONFIDENTIAL REPORT OF EVALUATION

Submitted by: Gary Berndt
 Client: SRS Environmental
 Object: TCLP METALS, F-SCAN, FLASHPOINT, TOTAL HALOGENS
 BTU, SULFUR CONTENT, ASH CONTENT, BS&W, PCB

Report Date: 01/13/00
 Lab. No. : 00-0015A

QA/QC DATA
 =====

1. SURROGATE % RECOVERY

VOLATILE COMPOUNDS

| | Results(%) | | Limits(%) |
|----------------------------|------------|--|-----------|
| | 1 | | |
| | ==== | | ===== |
| 1,2 Dichloroethane-d4----- | 105 | | 80 - 120 |
| Toluene-d8----- | 100 | | 82 - 118 |
| 4-Bromofluorobenzene----- | 95 | | 80 - 120 |

2. METHOD BLANKS (ORGANICS):

| FILE ID | FRACTION | COMPOUND | RESULT |
|----------|----------|---------------|--------|
| ===== | ===== | ===== | ===== |
| HPB76092 | PCB | All Compounds | ND |
| HPD11108 | F-SCAN | All Compounds | ND |

SAMPLE PROCESSING DATA
 =====

| | METALS | F-SCAN | PCB |
|---------------------------|----------|----------|----------|
| | ===== | ===== | ===== |
| Date Extracted/Digested:- | 01/08/00 | NA | 01/05/00 |
| Extracted/Digested by:--- | JSI | NA | MS |
| Date Analyzed:----- | 01/08/00 | 01/13/00 | 01/06/00 |
| Analyzed by:----- | JSI | LK | AB2 |
| File ID:----- | NA | HPD11127 | HPB76097 |
| Batch #:----- | 010800 | 011300 | 010600 |

ND = Not Detected or less than MDL
 NA = Not Applicable or Not Analyzed
 LOD-S = Limit of Detection for the reported sample(s)
 MDL = Method Detection Limit or Contract Required Detection Limit.
 Trip/Field Blank Submitted: No
 Test Parameters Subcontracted: None
 Results are reported in ppm unless otherwise specified.
 Results are reported on a dryweight basis where appropriate.
 Issuing of this report certifies that all cited method control criteria
 have been met unless otherwise indicated or qualified in the quality
 control section.

REPORT OF ANALYTICAL SERVICES

TO: SRS Environmental
3345 Greenfield Road
Melvindale, MI 48122

Report Date: 02/11/00

Lab Number: 00-0321A

Customer P.O. #:

Attn: Nick Ciantar

Customer #:

RTI Quote #:

PART / SAMPLE IDENTIFICATION:

Monthly Oil Sampling - Jan/Feb 2000
1 Oil Sample

Received: 02/02/00

Tests Completed: 02/10/00

Reported: 02/11/00

WORK REQUESTED / PERFORMED:

TCLP METALS, F-SCAN, FLASHPOINT, TOTAL HALOGENS
BTU, SULFUR CONTENT, ASH CONTENT, BS&W, PCB

THE RESULTS OF ALL TESTS and/or ANALYSES REQUESTED ARE REPORTED ON THE PAGES WHICH FOLLOW.

Number of pages including this page

7

APPROVED BY:



REPORTED BY:



The data and information presented herein, while not guaranteed, are to the best of our knowledge accurate and true. No warranty or guarantee implied or expressed is made regarding these analytical results, since securing and properly preserving representative samples and since the sample custody chains are beyond RTI control. The results provided by RTI are neither intended to suggest product merchantability, nor for use in infringement of any existing patent. RTI will not assume any liability or responsibility for any such infringement. Alteration or reproduction other than in its entirety is not authorized by RTI Laboratories, Inc.

CONFIDENTIAL REPORT OF EVALUATION

Submitted by : Nick Ciantar

Lab. No. : 00-0321A

Client : SRS Environmental
Melvindale, MI

Report Date : 02/11/00

Sample ID :

Monthly Oil Sampling - Jan/Feb 2000
1 Oil Sample

Object :

TCLP METALS, F-SCAN, FLASHPOINT, TOTAL HALOGENS
BTU, SULFUR CONTENT, ASH CONTENT, BS&W, PCB

Results and Discussion :

SAMPLE IDENTIFICATION

SAMPLE MATRIX

1 - Jan/Feb 2000 2/2/00

Oil

CONFIDENTIAL REPORT OF EVALUATION

Submitted by: Nick Ciantar
 Client: SRS Environmental
 Object: TCLP METALS, F-SCAN, FLASHPOINT, TOTAL HALOGENS
 BTU, SULFUR CONTENT, ASH CONTENT, BS&W, PCB

Report Date: 02/11/00
 Lab. No. : 00-0321A

Sample ID: Monthly Oil Sampling - Jan/Feb 2000 2/2/00

| PARAMETERS | METHOD | MDL (ppm) | LOD-S (ppm) | Results (ppm) |
|---------------------------------------|--------|--------------|----------------|------------------|
| F-SCAN (F001-F002) | | | | |
| Tetrachloroethylene | 8260 | 0.001 | 1.0 | ND |
| Trichloroethylene | 8260 | 0.001 | 1.0 | ND |
| Methylene chloride | 8260 | 0.001 | 1.0 | ND |
| 1,1,1-trichloroethane | 8260 | 0.001 | 1.0 | ND |
| Carbon tetrachloride | 8260 | 0.001 | 1.0 | ND |
| Chlorinated Fluorocarbons | 8260 | 0.001 | 1.0 | ND |
| Chlorobenzene | 8260 | 0.001 | 1.0 | ND |
| 1,1,2-trichloro-1,2,2-trifluoroethane | 8260 | 0.001 | 1.0 | ND |
| 1,2-Dichlorobenzene | 8260 | 0.001 | 1.0 | ND |
| 1,3-Dichlorobenzene | 8260 | 0.001 | 1.0 | ND |
| 1,4-Dichlorobenzene | 8260 | 0.001 | 1.0 | ND |
| Trichlorofluoromethane | 8260 | 0.001 | 1.0 | ND |
| 1,1,2-trichloroethane | 8260 | 0.001 | 1.0 | ND |

| PARAMETERS | METHOD | MDL (ppm) | LOD-S (ppm) | Results (ppm) |
|------------------------|--------|--------------|----------------|------------------|
| F-SCAN (F003) | | | | |
| Xylenes | 8260 | 0.003 | 3.0 | 7.1 |
| Acetone | 8260 | 0.001 | 1.0 | ND |
| Ethyl acetate | 8260 | 0.001 | 1.0 | ND |
| Ethyl benzene | 8260 | 0.001 | 1.0 | 1.2 |
| Ethyl ether | 8260 | 0.001 | 1.0 | ND |
| Methyl isobutyl ketone | 8260 | 0.001 | 1.0 | ND |
| n-butyl alcohol | 8260 | 0.001 | 1.0 | ND |
| Cyclohexanone | 8270 | 0.001 | 1.0 | ND |
| Methanol | 8015 | 0.100 | 1.0 | ND |



RTI LABORATORIES, INC.

Chemical, Metallurgical & Environmental Testing



CONFIDENTIAL REPORT OF EVALUATION

Submitted by: Nick Ciantar

Report Date: 02/11/00

Client: SRS Environmental

Lab. No. : 00-0321A

Object: TCLP METALS, F-SCAN, FLASHPOINT, TOTAL HALOGENS
BTU, SULFUR CONTENT, ASH CONTENT, BS&W, PCB

Sample ID: Monthly Oil Sampling - Jan/Feb 2000 2/2/00

| PARAMETERS | METHOD | MDL (ppm) | LOD-S (ppm) | Results (ppm) |
|---------------|--------|--------------|----------------|------------------|
| F-SCAN (F004) | | | | |
| o-Cresol | 8270 | 0.001 | 1.0 | ND |
| m-Cresol | 8270 | 0.001 | 1.0 | ND |
| p-Cresol | 8270 | 0.001 | 1.0 | ND |
| Nitrobenzene | 8270 | 0.001 | 1.0 | ND |

| PARAMETERS | METHOD | MDL (ppm) | LOD-S (ppm) | Results (ppm) |
|---------------------|--------|--------------|----------------|------------------|
| F-SCAN (F005) | | | | |
| Toluene | 8260 | 0.001 | 1.0 | 3.2 |
| Methyl ethyl ketone | 8260 | 0.001 | 1.0 | 22 |
| Carbon disulfide | 8260 | 0.001 | 1.0 | ND |
| Isobutanol | 8260 | 0.001 | 1.0 | ND |
| Pyridine | 8270 | 0.001 | 1.0 | ND |
| Benzene | 8260 | 0.001 | 1.0 | ND |
| 2-ethoxyethanol | 8260 | 0.001 | 1.0 | ND |
| 2-nitropropane | 8260 | 0.001 | 1.0 | ND |

CONFIDENTIAL REPORT OF EVALUATION

Submitted by: Nick Ciantar Report Date: 02/11/00
 Client: SRS Environmental Lab. No. : 00-0321A
 Object: TCLP METALS, F-SCAN, FLASHPOINT, TOTAL HALOGENS
 BTU, SULFUR CONTENT, ASH CONTENT, BS&W, PCB

Sample ID: Monthly Oil Sampling - Jan/Feb 2000 2/2/00

| PARAMETER | RESULTS |
|------------------------|---------|
| ===== | ===== |
| Ignitability | |
| (Flash point, deg. F) | >200 |
| Total Halogens (ppm) | 1818 |
| Total Sulfur (percent) | 0.38 |
| BS&W (percent) | 1.8 |
| Ash Content (percent) | 0.13 |
| BTU (BTU/lb) | 19400 |

TCLP METALS PORTION
 =====

| PARAMETERS | METHOD | MDL (ppm) | LOD-S (ppm) | Results (ppm) | Regulatory Limit (ppm) |
|------------|----------------------------|--------------|----------------|------------------|---------------------------|
| ===== | ===== | ===== | ===== | ===== | ===== |
| METALS | 3020A (Sample Preparation) | | | | |
| Arsenic | 6010 | 0.20 | 1.00 | ND | 5 |
| Barium | 6010 | 0.01 | 0.25 | 1.35 | 100 |
| Cadmium | 6010 | 0.01 | 0.25 | ND | 1 |
| Chromium | 6010 | 0.02 | 0.50 | 0.95 | 5 |
| Lead | 6010 | 0.05 | 1.25 | ND | 5 |
| Mercury | 7470A | 0.01 | 0.01 | ND | 0.2 |
| Selenium | 6010 | 0.20 | 1.00 | ND | 1 |
| Silver | 6010 | 0.01 | 0.50 | ND | 5 |

CONFIDENTIAL REPORT OF EVALUATION

Submitted by: Nick Ciantar

Report Date: 02/11/00

Client: SRS Environmental

Lab. No. : 00-0321A

Object: TCLP METALS, F-SCAN, FLASHPOINT, TOTAL HALOGENS
 BTU, SULFUR CONTENT, ASH CONTENT, BS&W, PCB

Sample ID: Monthly Oil Sampling - Jan/Feb 2000 2/2/00

| Parameter | MDL (ppm) | LOD-S (ppm) | Results (ppm) |
|---|--------------|----------------|------------------|
| PCB's (Method EPA 3580A, 3665, 3620A, 8080) | | | |
| Arochlor 1016 | 1.0 | 1.0 | ND |
| Arochlor 1221 | 1.0 | 1.0 | ND |
| Arochlor 1232 | 1.0 | 1.0 | ND |
| Arochlor 1242 | 1.0 | 1.0 | ND |
| Arochlor 1248 | 1.0 | 1.0 | ND |
| Arochlor 1254 | 1.0 | 1.0 | ND |
| Arochlor 1260 | 1.0 | 1.0 | ND |

CONFIDENTIAL REPORT OF EVALUATION

Submitted by: Nick Ciantar
 Client: SRS Environmental
 Object: TCLP METALS, F-SCAN, FLASHPOINT, TOTAL HALOGENS
 BTU, SULFUR CONTENT, ASH CONTENT, BS&W, PCB

Report Date: 02/11/00
 Lab. No. : 00-0321A

QA/QC DATA

1. SURROGATE % RECOVERY

VOLATILE COMPOUNDS

| | Results(%) | Limits(%) |
|----------------------------|------------|-----------|
| | 1 | |
| 1,2 Dichloroethane-d4----- | 114 | 80 - 120 |
| Toluene-d8----- | 103 | 82 - 118 |
| 4-Bromofluorobenzene----- | 103 | 80 - 120 |

2. METHOD BLANKS (ORGANICS):

| FILE ID | FRACTION | COMPOUND | RESULT |
|----------|----------|---------------|--------|
| HPB76510 | PCB | All Compounds | ND |
| HPD12008 | F-SCAN | All Compounds | ND |

SAMPLE PROCESSING DATA

| | METALS | F-SCAN | PCB |
|---------------------------|----------|----------|----------|
| Date Extracted/Digested:- | 02/05/00 | NA | 02/04/00 |
| Extracted/Digested by:--- | JSI | NA | MS |
| Date Analyzed:----- | 02/05/00 | 02/08/00 | 02/07/00 |
| Analyzed by:----- | JSI | * LK | AB2 |
| File ID:----- | NA | HPD12016 | HPB76513 |
| Batch #:----- | 020500 | 020800 | 020700 |

ND = Not Detected or less than MDL
 NA = Not Applicable or Not Analyzed
 LOD-S = Limit of Detection for the reported sample(s)
 MDL = Method Detection Limit or Contract Required Detection Limit.
 Trip/Field Blank Submitted: No
 Test Parameters Subcontracted: None
 Results are reported in ppm unless otherwise specified.
 Results are reported on a dryweight basis where appropriate.
 Issuing of this report certifies that all cited method control criteria
 have been met unless otherwise indicated or qualified in the quality
 control section.



Paragon
Laboratories, Inc.

12649 Richfield Court
Livonia, Michigan 48150

(734) 462-3900 • Fax (734) 462-3911

Fax

Date:

4/17/00

To:

Sherryl Miller

Fax:

(313) 382-9764

Company:

SRS

From:

Eric Turner

Phone: 734-462-3900

Fax: 734-462-3911

Pages:

3

Subject:

OTHER TWO METALS

Comments:



LABORATORY TESTS RESULTS
04/13/000

JOB NUMBER: 122132

CUSTOMER: SRS Environmental

ATTN: Sherryll Miller

CLIENT I.D.: Monthly Oil-Plant-April 2000
 DATE SAMPLED: 04/03/00014:30
 TIME SAMPLED: 14:30
 WORK DESCRIPTION: Monthly Oil-Plant-April 2000

LABORATORY I.D.: 122132-0001
 DATE RECEIVED: 04/05/00009:52
 TIME RECEIVED: 09:52
 REMARKS:

| TEST DESCRIPTION | FINAL RESULT | LIMITS/*DILUTION | UNITS OF MEASURE | TEST METHOD | DATE | TECHN |
|---------------------------|--------------|------------------|------------------|------------------|----------|-------|
| PCBs in Liquid | | *10 | | SW 846 8082 | 04/12/00 | BND |
| PCB Aroclor 1016 | ND | 10 | mg/kg | | | |
| PCB Aroclor 1221 | ND | 10 | mg/kg | | | |
| PCB Aroclor 1232 | ND | 10 | mg/kg | | | |
| PCB Aroclor 1242 | ND | 10 | mg/kg | | | |
| PCB Aroclor 1248 | ND | 10 | mg/kg | | | |
| PCB Aroclor 1260 | ND | 10 | mg/kg | | | |
| F001-F005 Volatiles | | *10 | | SW 846 8260B | 04/11/00 | BND |
| Acetone | ND | 500 | mg/kg | | | |
| Benzene | ND | 10 | mg/kg | | | |
| Carbon disulfide | ND | 50 | mg/kg | | | |
| Carbon tetrachloride | ND | 10 | mg/kg | | | |
| Chlorobenzene | ND | 10 | mg/kg | | | |
| 1,2-Dichlorobenzene | ND | 10 | mg/kg | | | |
| Ethyl acetate | ND | 500 | mg/kg | | | |
| Ethyl ether | ND | 500 | mg/kg | | | |
| Ethylbenzene | ND | 10 | mg/kg | | | |
| Methyl ethyl ketone | ND | 500 | mg/kg | | | |
| Methyl isobutyl ketone | ND | 500 | mg/kg | | | |
| Tetrachloroethene | ND | 10 | mg/kg | | | |
| Toluene | ND | 10 | mg/kg | | | |
| 1,1,1-Trichloroethane | ND | 10 | mg/kg | | | |
| 1,1,2-Trichloroethane | ND | 10 | mg/kg | | | |
| Trichloroethene | ND | 10 | mg/kg | | | |
| Trichlorofluoromethane | ND | 20 | mg/kg | | | |
| Xylenes, total | 14.1 | 10 | mg/kg | | | |
| Trichloro-trifluoroethane | ND | 10 | mg/kg | | | |
| Dichloromethane | ND | 50 | mg/kg | | | |
| F001-F005 Semi-Volatiles | | *1 | | 8270C | 04/10/00 | BND |
| 2-Methylphenol | ND | 50 | mg/kg | | | |
| 3&4 Methylphenol | ND | 100 | mg/kg | | | |
| Cyclohexanone | ND | 50 | mg/kg | | | |
| Nitrobenzene | ND | 50 | mg/kg | | | |
| Pyridine | ND | 50 | mg/kg | | | |
| 2-Ethoxyethanol | ND | 500 | mg/kg | | | |
| 2-Nitropropane | ND | 500 | mg/kg | | | |
| TCLP RCRA Metals | | *1 | | 6000-7000 Series | 04/11/00 | AKL |
| Barium (TCLP) | non detect | 0.1 | mg/L | 6010B | | |

12649 Richfield Court
 Livonia, MI 48150
 (734) 462-3900

PAGE:1



LABORATORY TESTS RESULTS
04/13/000

JOB NUMBER: 122132

CUSTOMER: SRS Environmental

ATTN: Sherryll Miller

CLIENT I.D.: Monthly Oil-April 2000
 DATE SAMPLED: 04/03/00014:30
 TIME SAMPLED: 14:30
 WORK DESCRIPTION: Monthly Oil-Plant-April 2000

LABORATORY I.D.: 122132-0001
 DATE RECEIVED: 04/05/00009:52
 TIME RECEIVED: 09:52
 REMARKS:

| TEST DESCRIPTION | FINAL RESULT | LIMITS/*DILUTION | UNITS OF MEASURE | TEST METHOD | DATE | TECHN |
|--------------------------------|--------------|------------------|------------------|-------------|----------|-------|
| Cadmium (TCLP) | non detect | 0.1 | mg/L | 6010B | | |
| Chromium (TCLP) | non detect | 0.5 | mg/L | 6010B | | |
| Lead (TCLP) | non detect | 0.5 | mg/L | 6010B | | |
| Mercury (TCLP) | non detect | 0.05 | mg/L | 7470A | | |
| Silver (TCLP) | non detect | 0.5 | mg/L | 6010B | | |
| Arsenic (TCLP) | non detect | 0.1 | mg/L | 6010B | | |
| Selenium (TCLP) | non detect | 0.5 | mg/L | 6010B | | |
| Copper (TCLP) | non detect | 0.01 | mg/L | 6010B | | |
| Zinc (TCLP) | 0.018 | 0.01 | mg/L | 6010B | | |
| Ignitability, (Flash Point) | >200 | 1 | Deg F | EPA 1010 | 04/07/00 | ACW |
| Total Halogens | 1300 | 100 | mg/kg | 9077 | 04/07/00 | DTM |
| Ash Content | 0.031 | 0.001 | wt. % | ASTM D482 | 04/12/00 | DHN |
| B. S. and Water, by centrifuge | 0.1 | 0 | vol. % | ASTM D1796 | 04/07/00 | DHN |
| X-Ray Sulfur in Fuel Oils | 0.391 | 0.005 | wt % | ASTM D4294 | 04/10/00 | DHN |

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July 3, 2000

MIR 000 022 400

Review of Document Titled, "SRS Environmental QA/QC Program"

(Received on March 28, 2000)

Prepared by Sue Rodenbeck Brauer, Region 5 RCRA Used Oil Expert

Comparison of SRS Environmental QA/QC Program with 40 CFR 279.55,
Analysis Plan

Analytical requirements of 40 CFR 279.53 and 40 CFR 279.72.

(a) Rebuttable presumption for used oil in 40 CFR 279.53.

(1) Whether samples analyses or knowledge will be used:

- **generator waste characterization report for knowledge (p. 5-1);**
- approval process annually (p. 5-2) does not include total halogens and sets maximum for PCBs as 50 ppm (should be less than 2 ppm to avoid TSCA regulation);
 - Figure 5.C does not list total halogens as a required analysis for approval;
 - Figure 5.D does not specify total halogens or any other analyte;
 - **Figure 5.G lists % chlorine (without an identified analytical method) as an analysis performed on each in-bound shipment.**
 - Figure 5.H does not specify whether quantitative results are recorded (it's a blank form).

(2) (i) sampling method: Figure 5.E gives sample method as "SW-846" and sample equipment as "coliwasa/tube sampler, weighted bottle, bomb, or tank sampling ports."

(ii) frequency of sampling: Figure 5.G lists % chlorine as an analysis performed on each in-bound shipment.

(iii) methods used to analyze used oil for parameters specified in 40 CFR 279.53 (halogenated hazardous constituents listed in App. VIII of Part 261):

- From Figure 5.C (pre-approval) for waste oils, TCLP Semivolatiles 3510 & 8270, TCLP Volatiles Method 8240, PCBs 8080;
- From Figure 5.C (pre-approval) for process & ground waters, PCBs 8080, TCLP Semivolatiles 3510 & 8270, TCLP Volatiles 8240, Herbicides 8150, Pesticides 3510 & 8080; and,
- From Figure 5.C (pre-approval) for sludges, PCBs 8080, TCLP Semivolatiles 3510 & 8270; TCLP Volatiles 8240.

[Does this cover all the halogenated hazardous constituents in App. VIII to Part 261? NO, pages 5-3 and 5-4 list "semi-volatiles/volatiles-defined under 40 CFR Section 261.21, the characteristic of ignitability, but the organic constituents for the characteristic of toxicity from 40 CFR 261.24 are listed with the exceptions of benzene, hexachlorobutadiene, and hexachloroethane. It's not a complete list of halogenated constituents from App. VIII of Part 261.]

(3) The type of information that will be used to determine the halogen content of the used oil. It may be inferred that waste profile forms completed by generators and % chlorine by analysis will be used, but the "rebuttable presumption" is not addressed per se in the QA/QC Program.

(b) On-specification used oil fuel in 40 CFR 279.72

A processor/re-refiner may determine that used oil that is to be burned for energy recovery meets the fuel specifications of 40 CFR 279.11 by performing analyses or obtaining copies of analyses or other information documenting that the used oil fuel meets the specifications.

The plan must specify the following if 40 CFR 279.72 is applicable (section 5.6.2 on page 5-21 suggests that SRS Environmental ships on-specification used oil fuel)

(1) whether sample analyses or other information will be used to make this determination (section 5.6.3 suggests that analyses are relied upon to make the determination)

(2) If sample analyses are used to make this determination, then

(i) The sampling method used to obtain representative samples to be analyzed: **Not provided in section 5.6.2 and 5.6.6.**

(ii) whether used oil will be sampled and analyzed after any processing/re-refining. Section 5.6.3 states that on-spec oil will be analyzed for BS&W, Corrosivity, Sulfur Test, Ignitability, toxicity characteristics metals, total halogens (TX), and PCBs.) As summarized in section 5.6.2, RCRA regulations require analysis for As, Cd, Cr, Pb, flash point, and TX. Figure 5.N does not include any metals. Why are there three different representations (5.6.3, 5.6.2, and 5.N) of what metals are analyzed?

(iii) The frequency of sampling to be performed, and whether analyses will be conducted on- or off-site. In Section 5.6.2 on page 5-22, it is not clear who (on- or off-site) performs monthly analyses on each holding tank. In Section 5.6.4 on page 5-22, it is not clear whether the independent laboratory analyses are conducted on- or off-site.

(iv) the methods used to conduct the analyses. Section 5.6.3 and Figure 5.N are not consistent with respect to flash point determination (ignitability by method 1010 and method 1010 or 1020, respectively).

(3) The information to be used to make the on-spec used oil fuel determination. SRS apparently relies exclusively on analyses.

F:\user\sbrauer\usedoil\sybill\Used Oil Analysis Plan regulatory review.wpd, 7/3/2000srb

3-28-00

9 PSI - Drop water water top

10 1/4

11 Cooling good oil move to 15+17

12 ↓ 1/2 oil treated at 800pm ^{ACID} good oil ^{170°} move to 15+17

13 —

14 Filling + HEATING (NEED to treat ^{with} w/c.) treated ^{water top} w/c 180°

15 Good oil (NEED to blend)

16 11/12

17 Good oil

18 floor

19 —

20 Bottom ↑ 3/4

MT 21 ~~A~~ water ↓ 1/4 oil

22 ↑ 1/2 bottoms

23 ↓ 1/2 ~~oil~~ 11 or 12 ↑ 3/4

24 SOME A-water into ↓

25 MT

26 11 or 12

27 MT

28 3/4 bottoms

29 T-3

30 T-3

* NEED to start cleaning all Tanks From Top
To Bottom Every Tank in Plant (59)

3-28-00 AFT,

- 9 Mover to 11 \downarrow 1/4 almost full
- 10 1/4
- 11 Filling + heat \checkmark level
- 12 MT
- 13 -
- 14 treated with Acid Zoom 180°
- 15 good oil Full mixed
- 16 11x12
- 17 good oil \uparrow 1/2
- 18 Floor
- 19 -
- 20 \uparrow 3/4 Bottoms
- 21 MT
- 22 11x12
- 23 MT
- 24 1/4 oil
- 25 MT
- 26 11x12
- 27 MT
- 28 3/4 Bottoms
- 29 T-3
- 30 T-3

Notes:

- * NEED ACCESS TO PARTS TO FIX HOSES.
- * 9003 9004 9005 ready For LTV
- * \checkmark 3 before you use it
- * \downarrow 1/2 water \uparrow 1/2 good oil
- * SL Srench will be in

3-29-00 mid

9 mt

10 Nelsons

11 Full Heating?

12 Filling

13 —

14 ~~tapings~~ mt

15 good oil mix full

16 11 or 12

17 good oil 1 1/2

18 floor

19 —

20 1/3 Bottoms

21 mt

22 ~~mt~~ mt

23 mt

24 1/4 oil 11 or 12

25 mt Full ~ Good oil

26 ~~11 1/2~~ moved to 12 mt

27 mt

28 3/4 Bottoms

29 T₃ ↓ 3/4

30 T₃ ↓ 3/4

x Hoses.

| | | | | |
|---------------|------------|-------------|--------|--------|
| 2 ypsi | 1 warren | 2 TV | 6000 | 6000 |
| 3500 Hot Stop | 6000 Parma | Nelsons | 10,000 | 10,000 |
| 2 Range | 10,000 | 35,00 Range | | |

↓ ↓ ↓ ↓ ↓ ↓
 20 26 28 29 30 24

all the line to the tanks are done

Spiked on top of #12 ~~is~~ plugged

3-29-60

9 Full - Ready for Acid + heating

~~10~~ $\frac{1}{4}$ water filling ~~NESEA~~ Down to oil

11 full - Ready for Acid \times Cooling treated at 1:15 pm

12 full - Ready for Acid Temp 185°

13 —

14 $\downarrow \frac{1}{2}$ (A-treat) filling from 29 / Full 180°

15 Good oil

16 11 or 12 $\downarrow \frac{1}{2}$

17 $\frac{1}{2}$ Good oil

18 floor

19 —

20 $\uparrow \frac{3}{4}$ Bottoms

21 YPSI - treated Water drop 170° w/ Caustic 11A

22 MT YPSI treated water drop 180° C/T 1:00 p

23 MT $\frac{1}{2}$ Full

24 T-3 full

25 Full Good oil

26 ~~$\frac{1}{4}$~~ Good oil Buick

27 ~~YPSI~~ WARREN treated water drop 1A Caustic

28 $\downarrow \frac{3}{4}$ Bottoms + T-3 full

29 ~~$\frac{3}{4}$~~ T-3 full / BOTTOMS \downarrow

30 ~~$\frac{3}{4}$~~ ~~T-3~~ MT Do NOT use
(Down for Repairs)

* DO NOT USE Tank 30 it is Leaking
use 9+14+11+12 for Acid Treats
use 20-30 for Caustic Treats

(59)

* USE 26 for Buick (not finished unloading)

* MOVE T-29 to 14

* USE T-22 for YPSI Treat with Caustic

* T-29 is moving to 14

* T-9005 is Full of Good oil it Has to
much Trash in it need to unload and Reload
with Screen for Treatment

3-29-00 AFTI

9 treated at 1045pm w/ACID 175°

10 Raige

11

12 treated at 100am w/ACID 180°

13 —

14 treated at 1130pm w/Caustic 175°

15 MT

16 11012

17 MT

18 Flox

19 —

20 1 3/4 Bottoms

21 MT

22 MT

23 ~~MT~~ Full ^{LTV} mount 11 23 Mt

24 T-3 Full

25 Full good oil

26 Buick

27 MT

28 T-3 Full

29 T-3 Full

30 MT

Notes

* 9003 9004 9005 ready for LTV

* 3 is Full

* 9002 MT need to be loaded with good oil

1:15 pm

30°

Austic 11A
5 C/T 1:00 p

1A Caustic

eaking
ts

ding)

au ric

s to
and Reload

3-30-00 miel

- 9 treated at 10:45 pm ✓ w/caustic 180°
- 10 Rouge
- 11 treated at 7:45 AM ✓ w/ACED 175°
- 12 treated at 1:00 AM ✓ w/ACED 180°
- 13 —
- 14 treated at 11:30 pm ✓ w/caustic 180°
- 15 mt
- 16 Mar 12
- 17 mt
- 18 floor
- 19 —
- 20 ↑ $\frac{3}{4}$ Bottoms
- 21 ~~mt~~ 1x YPSP
- 22 ~~mt~~ filling YPSP
- 23 mt
- 24 T-3 full
- 25 ✓ $\frac{3}{4}$ good oil
- 26 Buick
- 27 mt
- 28 T-3 full
- 29 T-3 full
- 30 mt

Notes

9002 loaded ~~mt~~ reloaded
for LTU
3 is full

3-30-00 DAY

fic 180°

ED 175°

ED 180°

fic 180°

- 9 Cooling
- 10 Rouge
- 11 Cooling Bottoms moved to 27 good oil
- 12 MT treated at 11:30 PM w/ACID 180°
- 13 —
- 14 Cooling water drop moved to 20
- 15 full Good oil
- 16 full bottom from 12
- 17 ↓ 1/2 bottom
- 18 floor
- 19 —
- 20 ↑ 3/4 bottoms
- 21 YPSI-treated water drop 8am 170°
- 22 YPSI-treated water drop 10am 160°
- 23 YPSI-treated water drop 12pm 180°
- 24 T-3 full
- 25 full Good oil
- 26 Buick full
- 27 A-water water drop
- 28 T-3 full
- 29 T-3 full
- 30 MT (Down for repairs)

aded

Bill + Lawyer will be in first thing in the morning so have plant clean by 7AM → Pass note on (keep up the house cleaning)

3-30-2000 AET

- 9 Cooling
- 10 Down to oil
- 11 Filling ✓ level
- 12 treated at 11:30pm w/ACID 180°
- 13 —
- 14 MT
- 15 LTV Mover to II MT
- 16 Full Bottoms
- 17 ↓ 1/2 Bottoms
- 18 Floor
- 19 —
- 20 ↑ 1/4 Water
- 21 MT
- 22 Mover to II MT
- * 23 ↑ 1/4 Horiz
- 24 T-3 Full (everclear)
- ~~25~~ ↑ 3/4 good oil
- * 26 Buick Horiz
- 27 ↑ 3/4 Bottoms ~~(everclear)~~
- 28 T-3 Full (everclear)
- 29 T-3 Full (everclear)
- 30 MT

Notes

- * 9000 9006 ready For everclear
- * 9003 9004 9005 ready For LTV
- 9002 need to be unloaded
- * 3 is Full



Bill + lawyer will be in at 7:00am
 so have plant looking good

midnight

80°

- 9 Cooling
- 10 ~~Down~~ Nelson
- 11 Heating
- 12 Cooling
- 13 -
- 14 mT
- 15 mT
- 16 Full Bottoms
- 17 1/2 Bottoms
- 18 Floor
- 19 -
- 20 a. water 1/4
- 21 ~~1x~~ 1x ypsp
- 22 mT WARREN
- 23 move to 12
- 24 T-3 everclear
- 25 3/4 Good oil
- 26 ~~move to 14~~ mT moved to 14
- 27 3/4 Bottoms
- 28 Full T-3 everclear
- 29 Full T-3 everclear
- 30 -

25-

I need samples of 27, 16, 17, Bottom, middle Top. (30)

20 min

- 9000 - Sludge for Monday T-3 oil
- 9001 - mT
- 9002 - NEED TO mT
- 9003 - G²⁵⁰ good oil
- 9004 - G²⁵⁰ good oil
- 9005 - G²⁵⁰ good oil
- 9006 - Sludge for Monday T-3 oil

Start wrighting the Temp of The Tank via Trent

3-31-00

- 9 Top off and treat w Acid + heating 180°
- 10 NELSON Down to oil
- 11 READY for Acid treated at 100am 170°
- 12 Cooling Filling
- 13 —
- 14 READY for Acid + heating treated 170°/ACR 1045
- 15 WARREN
- 16 Full bottoms
- 17 ~~1/2 bottoms~~ MTT
- 18 floor
- 19 —
- 20 1/4 A-water
- 21 VPSI treated w/c MTT 170° 10:30
- 22 WARREN treated w/c MTT 180° 11:40
- 23 11 or 12
- 24 T-3
- 25 3/4 Good oil MTT
- 26 Buick
- 27 3/4 bottoms
- 28 T-3
- 29 T-3
- 30 —

* meeting Mon 8am in Lab

3-31-00 AFT

- 9 need to be treated with acid
- 10 Down tool
- 11 treated 100am temp 170 w/ACID
- 12 Filling
- 13 —
- 14 1/4 good oil
- 15 Warren
- 16 Full bottoms
- 17 MT
- 18 Floor
- 19 —
- 20 1/4 A water
- 21 MT 1x4 PSP
- 22 MT VPSI
- 23 MT
- 24 T-3
- 25 MT
- 26 Buick 1/2
- 27 3/4 bottoms
- 28 T-3
- 29 T-3
- 30 —

ing 180°

am 170

45

ated 170 w/ACID

10:30

11:40

NOTES

- * 9003 9004 9005 ready for LTV
- * 9007 need to be unloaded moved to 12
- * √ 3 before you use it
- * 9000 MT
- * 9006 MT

4-1-00 DAY

- 9 READY for Acid
- 10 Down* to oil
- 11 Cooling treated At 3pm w/ACID 180°
- 12 Down to Good oil
- 13 —
- 14 $\sqrt{1/4}$ Good oil
- 15 WARREN
- 16 full bottoms
- 17 MT
- 18 floor
- 19 —
- 20 $1/4$ A-water
- 21 YPSI treated w/c 175° 9am
- 22 YPSI treated w/c 180° 10am
- 23 MT
- 24 MT
- 25 Romulus
- 26 Buick + LTV
- 27 $3/4$ bottoms
- 28 Rouge
- 29 ~~MT~~ Rouge
- 30 —

NOTES:

✓ 3 before use

Rouge may be running later

4-1-00AFT.

- 9 Ready For Acid treating 10pm 180° w/ACFD
- 10 Down to oil
- 11 Filling + heat ✓ level
- 12 good oil
- 13 —
- 14 MT
- 15 Warren
- 16 Full bottoms
- 17 MT
- 18 Floor
- 19 —
- 20 Full A water
- 21 ~~YRSI~~ water drop move to H MT
- 22 YRSI move water to 23 move oil
- 23 ~~YRSI~~ C-Water
- 24 MT
- 25 Romulus
- 26 MT
- 27 3/4 Bottoms
- 28 Bous
- 29 Bous
- 30 —

Notes

* 9002 MI

* 9005 9003 ready for LTV

* ✓ 3 before you use it

* castle move 21 to 11
 move 22 water to 23 oil to 11

AA

MID 4/2/00

- 9 READY FOR ACID TREAT MOVE TO 11
 M. OIL 10 DOWN TO OIL (HEATING)
~~COOLING~~ 11 ~~FILLING NEED TO TOP UP~~ FULL READY TO TREAT
 12 ~~██████████~~ Filling VPSI - MOVE TO 9
 13 —
 14 ~~██████████~~ VPSIX 2 FULL - treated 175° 3am
 15 WARREN
 16 ~~FULL BOTTOMS~~ LTV FULL
 17 ~~██████████~~ Good oil check LEVEL
 18 Floor
 19 —
 20 FULL A WATER ✓
 21 ~~██████████~~ Filling from TANK-3 Full
 22 oil Ready 11+12
 23 G-WATER ✓
 24 ~~██████████~~ Filling from T-3 Full
 25 ROMULUS
 26 ~~MT T-3~~
~~27 3/4 BOTTOMS~~ LTV
 28 ROUGE ✓
 29 ROUGE ✓
 30 —

* MOVE ♀ to

* NOTES

9000 9002 9006 ARE EMPTY
 TANK 1 HAS 10 FEET OF AIR
 CHECK 3 BEFORE USING

9000 - Sludge or Bottoms
 9006 - Sludge or Bottoms

9003
 9004
 9005 } Good oil

- ① Fill 21+24 from 3 oil and 1 more
- ② move water out to 3 after 23, 28, 29
- ③ Treat 9

Darry + Mike Call me 304-6854 Stan

TO 11
TINGL
10Y TO TREAT
MOVE TO 7

- 9 need to treat with acid
- 10 fdoor
- 11 filling
- 12 Heating Caustic treat 10:00 Treated 180°
- 13 —
- 14 need to drop water
- 15 watten
- 16 LTV Full move to 14
- 17 MT
- 18 floor
- 19 —
- 20 full a water
- 21 full T3
- 22 water + oil
- 23 C-water
- 24 full T3
- 25 Roomulus
- 26 full T3
- 27 LTV 12 Full mover to #11 MT 1X YPSI
- 28 Rouge next move to #10 MT 1X YPSI
- 29 Rouge
- 30 —

3am

NOTES: #9000 READY (6250 SLUDGE)
 #9005 DONE & GONE
 #9003 HAS 185"
 #5000 IS FULL
 #9004 IS EMPTY

003
004
005 } Goodoil

TANK 3 IS FULL DISCHARGE LINE ON #5 LEAKING

1 more
28, 29

Drop water 14 T-3
 Drop water 18 T-3
 put last ypsi in 28+29
 move 16 to 12
 Drop 22 water T-3

NF

m=D+Days

- 9 need to Treat
- 10 Water
- 11 Treated at 11:20am + ACID 175°
- 12 water Dropping treated at 8:00pm 170°
- 13
- 14 need to Drop C-Water Top off ACID Treat
- 15 Warren
- 1/2 16 Full LTV move to 12
- 17 MT
- 18 Floor
- 19
- 20 Full C-Water good oil ✓ For Bottoms
- MT 21 1/4 T-3
- 22 Drop water move oil 11+12
- 23 1/4 good oil ✓ for Bottoms Bottom drop
- 24 Full T-3
- 25 Romulus
- MT 26 T-3 Full oil
- 27 YPSI
- 28 ~~Warren~~ Warren } Heating treated w/ 1pm 180°
 } Deep to treat Caustic
 } treated w/ c
- MT 29 ~~Warren~~ Rouge move to T-3
- 30 Down for Repairs

(59)

- 9000 = Sludge
- 9001 =
- 9002 = Sludge
- 9003 = Good oil Has 18" on now
- 9004 = Good oil
- 9005 = Good oil

Keep vring on T-1 Level 10' air
4-3-00

4-3-00 AFT,

- 9 treated at 1230am 170° w/ACID
- 10 ~~Down~~ Down to oil move tall or 12
- 11 MT
- 12 MT
- 13 —
- 14 treated at 130am 170° w/Caustic
- 15 Washen
- 16 ↓ 1/2 LTV Move tall or 12
- 17 MT
- 18 Floor
- 19 —
- 20 good oil ✓ For bottom 1 1/4
- 21 MT
- 22 Deep water move oil 1 1/2
- 23 good oil bottoms drop
- 24 T-3 Full 1 1/4 water
- 25 Romulus
- 26 MT
- 27 ↓ 1/2 4PST water drop 1 1/2 or 12 > move tall or 12
- 28 Washen ↓ 1/2 water drop 1 1/2 or 12
- 29 MT
- 30 Down For Repairs

170°

F OAKED Treat

bottoms

Bottom drop

1/2 1pm 180°
Treat Caustic
1 1/2

NOTES

- * 9000 9002 Ready For Every
- * 9003 9004 9005 Ready For LTV
- * Scale used to be pump down
- * ✓ 3 be For you use it

now

* 27+28 moved to 12

air

4-4-00 mid

9 Cooling

10 mt

11 mt filling 1xYPSO

12 filling - treated at 11:45 AM 175° w/ACID

13 —

14 Cooling

15 Warren

16 $4\frac{1}{2}$ LTV moved to R

17 mt

18 floor

19 —

20 good oil $7\frac{1}{4}$ full

21 mt

22 ~~good oil~~ mt

23 good oil

24 T3 full

25 Romulus and scale

26 mt

27 mt

28 mt T-3

29 mt filling T3

30 Down for Repairs

Notes:

9003 + 5 + 6 Good oil

9004 Down for repair (if loaded then unload)

9000 + 9002 sludge

use front middle pump for floor

9406 - Buick

4-4-00 DAY

175° w/ACED

- 9 Cooling - Dropped ~~water~~ water ^{A. TREATED} w/ACED good oil 180° ↓ 1/4
- 10 Rouge Down to oil
- 11 ↓ 1/2 YPSI
- 12 ~~Cooling - A treated~~ Dropping WATER good oil / on
- 13 —
- 14 Filling YPSI treated w/c ↓ 1/2 170° 11:30am
- 15 MT
- 16 ↓ 1/2 LTV
- 17 MT
- 18 floor
- 19 —
- 20 full Good oil
- 21 YPSI
- 22 MT
- 23 Good oil ✓ LEVEL
- 24 full T-3
- 25 Romulus + SCALE
- 26 floor into
- 27 MT
- 28 full T-3
- 29 full T-3
- 30 not in use

NOTES:

SEE pg. 20

(then on load)

4-4-00AFT

- 9 ↓ 1/4 good oil
- 10 Down to oil
- 11 treated at 320am 175° w/acet
- 12 Filling level + heat
- 13 —
- 14 ↓ 1/2 ready for Acids moved to 12
- 15 MT
- 16 ↓ 1/2 LTV
- 17 MT
- 18 Floor
- 19 —
- 20 Full good oil
- 21 4PST
- 22 MT
- 23 good oil level ↓ 1/4
- 24 Full T-3 ↑ 1/4 water
- 25 Remulus
- 26 Floor into
- 27 MT
- 28 MT
- 29 T-3 Full
- 30 Down for repair

Notes

* 9003 9005 9006 ready for LTV

* 9002 9000 ready for every clear

* Buick moved to 12

* ✓ 3 to make sure you have room

4-5-00

75° w/ACTD

- 9 2xYPSP full + Heating
- 10 Down to oil
- 11 Cooling dropping water to 3
- 12 filling Buick SUV treated @ 7.95 180°
- 13
- 14 ~~mt~~ 1/2 of YPSP
- 15 mt
- 16 1/2 LTV filling Buick full
- 17 ~~mt~~ Buick full
- 18 floor
- 19
- 20 full good oil
- 21 ~~full good oil~~ mt
- 22 mt
- 23 good oil ✓ level
- 24 full T-3
- 25 Romulus
- 26 ~~floor into~~ floor
- 27 ~~mt~~ 3500 Rouge
- 28 mt
- 29 T-3
- 30 Down to fix open

Notes

5 feet in #3

- LTV
is clear

2500w

Stop using 3" air Pumps to to move
ACID use the ACID Pump it will
push it to 9 or 14. The Pump are almost

Shot!
* (51)

9000 } sludge

9002 }
9003 }
9004 } Good oil

4-5-00 DAY

- 9 YPSI - water dropped
 10 Down to oil
 11 $\downarrow 1/4$ refill & treat filling
 12 Cooling - water moving to 3 good oil
 13 —
 14 YPSI ^{WATER} ~~moving to 3~~ - Done
 15 MT
 16 full 11 or 12
 17 full 11 or 12
 18 floor
 19 —
 20 full Good oil
 21 MT
 22 MT
 23 Good oil $\downarrow 1/4$
 24 T-3 - $1/4$ water
 25 Romulus
 26 floor
 27 YPSI + 3500 Rouge
 28 $\downarrow 1/4$ T-3 ~~MT~~
 29 full T-3 Drop water
 30 OPEN * DO NOT USE

9000 SLUDGE
 9002

9003
 9005 \rightarrow 6250 Good oil
 9006

4-5-00 AFT:

9 MT

10 Down to oil

11 treated at 10pm ^{ALSO} 170° water drop good oil ✓ for bottoms

12 treat at 11:15 175° A water moved to 3

13 -

14 ~~oil~~ 1X PSI

15 MT

16 Full 11 or 12

17 Full 11 or 12

18 Floor

19 -

20 1/4 good oil

21 MT

22 MT

23 good oil 1/4

24 T-3 - 1/4 water

25 Remulus

26 Floor

27 PSI + Rouge moved to 14 MT

28 MT

29 1/4 T-3

30 open * Do not use

Notes

* 9003 9005 9006 ready for BTV

* 9002 9000 ready for every clear

* Buick in back pad loaded called at 10pm ^{SAM}

So I could unload it Denise took keys

T-5 Full / SKIMMED / #5000 Full

T-3 3 1/2 FEET OF AIR

Carlo

* 11 good oil ✓ for bottoms

* 12 A water moved to 3

* ✓ 3 for floor

oil

3-4-6-00 mid

- 9 ~~mt~~ 1xYPSQ
 10 Down to oil
 11 down to Bottom ^{good} Next
 12 mover to 20 ^{good} oil
 13 —
 14 2-YPSQ Treated w/C Cooling 180° 2am
 15 mt
 16 Full 11 or 12
 17 full 11 or 12
 18 floor
 19 —
 20 good oil
 21 ~~mt~~ good oil
 22 mt
 23 good oil
 24 T3-14 water
 25 Ramotos MT
 26 Floor
 27 Back
 ✓ 28 mt
 ✓ 29 ~~mt~~ T3 full
 30 Down to Be fix

Car Bin tank down and
 Scrubber tank down until
 4:00 PM do not Heat 11 and 12
 Call Stan furit (see Jim)

id

~~33~~ 4-6-00

180° 2am

- 9 Cooling
- 10 Down to oil Need to MT + Clean out Box
- 11 filling } ✓ / EVEL
- 12 filling }
- 13 —
- 14 Cooling
- 15 MT
- 16 Full > 11+12
- 17 Full >
- 18 Floor
- 19 —
- 20 Full good oil MT
- 21 ↑ 1/2 good oil
- 22 MT
- 23 YPSI into
- 24 T-3 Drop water then send to everclear
- 25 MT
- 26 Need to MT for Repairs Tomorrow
- 27 Buick
- 28 ↓ 1/4 MT
- 29 T-3 Full
- 30 Down

and
won until
+ 11 and 12
(Jim)

- 1) all acid + Caustic water will Be moved to the middle Tanks, adjust the P.H. to a 6ph. then water can Be moved to 3 after P.H. changed ^{MUST} _{Be done} ~~still~~
- 2) afternoons must start Being cleaner out side, on unloading Area
- 3) start wiping Down Tanks + Door (every shift)
- 4) 9003 Trailer is the last Traile Load to go into T-1 after MT. we will need

4-6000AET

- 9 \downarrow 1/2 work
- 10 need to MT + clean out box
- 11 treated at 130am 170° w/ACID
- 12 treated at 100am 150° w/ACID ~~170°~~
- 13 —
- 14 \downarrow 1/2 work
- 15 MT
- 16 MT
- 17 Full work
- 18 Floor
- 19 —
- 20 MT
- 21 good oil \downarrow 1/4
- 22 MT
- 23 YPSI
- 24 T-3 Drop water for every clear
- 25 MT
- 26 Need to MT for repairs tomorrow
- 27 Buick
- 28 MT
- 29
- 30 Down for repairs

NOTES: NEED MORE BUCKETS
 WATER IN T.3 TOO DIRTY TO MOVE
 T.5 EMPTY

9000
 X 9004 ready for every clear
 X 9003 ~~9004~~ 9005 9006 ready for LTU
 X Acid ~~box~~ ^{box} got a box in it that why it
 X not hook to pump

box
w/ACID
~~ACID~~

9 ~~1/2 H 12~~ ACPD treat

10 Down to OP1

11 ~~treated at 130~~ w/ACID need to top off treated 180° 11:45 AM

12 ~~move~~ w/ACID need to top off treated 175° 11:45 AM

13

14 ~~1/2 H 12~~ ACPD treat

15 mt

16 mt

17 full 11 or 12

18 floor

19

20 A-water + caustic treated

21 good oil 1/4

22 mt YPSI - treated

23 YPSP - treated

24 T3 drop water for Every leary Down to oil water Drop

25 mt

26 MT

27 Buick

28 mt

29 T-3

30 Down for Repair

cycles

is tomorrow

ST3
VERY TO MOVE

1) mt 27

2) mt 26

3) Drop water on 24 + 11 + 12

Treat 20 with Caustic to a P.h. of 6

at
FOR LTV
that why it

4-7-88

- 9 Ready for Acid (heating) treated 645 pm 176°
- 10 Down to ~~oil~~ oil
- 11 Cooling treat 180° w/ACID 1pm
- 12 Cooling water drop good oil
- 13 —
- 14 Ready for Acid (heating) ^{w/cause} treated 728 165°
- 15 MT
- 16 MT
- 17 ~~MT~~ GM ENGINE
- 18 floor
- 19 —
- 20 A-water treated ↓ 1/4 oil
- 21 ↑ 1/4 good oil
- 22 YPSI - treated ^{w/c} water drop moved to 12 178°
- 23 YPSI - treated ^{w/c} water drop moved to 12 170°
- 24 T-3 (water dropped)
- 25 ~~MT~~ WARTEN
- 26 MT
- 27 Buick
- 28 MT
- 29 T-3
- 30 Down for repair

4-7-00AFT,

5 pm 176°

- 9 MT
 - 10 Down to oil
 - 11 cooling
 - 12 Filler \checkmark level treated at 330am ^{175°} w/ACED
 - 13 —
 - 14 MT ~~Boil~~ ~~move~~ ~~to~~ ~~14~~
 - 15 Full 11 or 12
 - 16 Full 11 or 12
 - 17 Full 11 or 12
 - 18 Floor
 - 19 —
 - 20 ~~14~~ 10.5 MT
 - 21 Full good oil
 - 22 ~~MT~~ YPSP Heating
 - 23 AFF A-water
 - 24 T-3 Good oil
 - 25 ~~water~~ Heating
 - 26 ~~MT~~ 11 or 12
 - 27 ~~Boil~~ MT
 - 28 ~~Boil~~ 1/4 good oil
 - 29 T-3
 - 30 Down for repair
- Notes

165°

170°

170°

- * 9003 9005 Ready for LTV
- * 9006 Need to be unloaded and load with good oil
- * V3 before you use it
- * 9006 move it to 14

4-8-00

- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17
- 18
- 19
- 20
- 21
- 22
- 23
- 24
- 25
- 26
- 27
- 28
- 29
- 30

4-8-60 DAY

- 9 YPSI - treated w/caustic 9am 180°
- 10 Rouge - full
- 11 Cooling - moving water to #20
- 12 Cooling treated at 4:15pm Temp 180° w/ACED
- 13 —
- 14 MT
- 15 } full 11 or 12
- 16 } full 11 or 12
- 17 }
- 18 floor
- 19 —
- 20 A-water (treated)
- 21 Good oil
- 22 YPSI - treated
- 23 A-water (treated)
- 24 T-3
- 25 Good oil
- 26 11 or 12
- 27 MT
- 28 1/4 oil
- 29 T-3
- 30 ~~OPEN~~ (for Repair)

59

Ernest CALL ME STAN when you get in
 about moving 3 to 5 water only 304-6854
 * Andy will be in LATER did not come in TYPONE

① all Tanks that are treated must Have TIME
 and temp sample

Tank 11 Treated 1:00p 180°

4-8-00AFT.

- 9 MT
 10 Down to oil
 11 treated at 130am 180° w/ACFD
 12 Filling ✓ level + heat
 13 —
 14 MT
 15 —
 -16 — Full 11 or 12
 17 —
 18 Floor
 19 —
 20 A Water treated
 21 good oil Full
 22 YPSI treated w/caustic 8pm 180°
 23 A Water treated
 24 T-3
 25 good oil Full
 26 11 or 12 moved to 12 MT
 27 MT
 28 1/4 oil 11 or 12 moved to 12 MT
 29 T-3
 30 Open down for repairs

Notes

- * 9008 loaded 6000 To every clear
- * 9003 9005 ready for LTU
- * 9004 MT
- * 9006 need to be unloaded and load with good oil.

Mike

- * Fill 12 up
- * move 20 + 23 water to 3
- * only water to 3 ✓ For oil

4/9/00 MID

CD

9 MT

10 DOWN TO OIL

11 COOLING WAS TREATED AT 1:30 AM 180° w/ACID

12 Full Treated at 3:00 180° w/ACID

13 —

14 MT 17 filling) so you can acid treat

15 > Full 11 or 12

17

18 Floor

19 —

20 LTV CHECK LEVEL

m 180°

21 Good oil

22 YPSI TREATED 180° w/caustic 11pm

23 MT

24 T-3

25 Good oil Full

26 ~~MT~~ good oil from #11 filling

MT

27 MT

28 MT

29 T-3

30 DOWN FOR REPAIRS

cycle car

* NOTES

WILL NOT BE IN ~~TUESDAY~~ MONDAY going to dentist!
MIKE G.

and bad

* PAD NEEDS TO BE SPRAYED DOWN

* 9000 LOADED 6:25 good oil

1

* Daryl CALL STAN ASAP upon arrival 304#

3
oil

4-9-00 Days

9 mt

10 Down to oil

11 ~~Deeping water to 23 MT~~12 treated at 3:00^{pm} Cooling ~~100°C~~

13 —

14 filling from ~~MT~~ acid treat Full

15 > move to 9014

16 >

17 mt

18 floor

19 —

~~20 LTU MT~~✓ 21 good oil ^{GT6}~~22 YSP treated~~ wid. MT

843 23 A-Water

~~24 T3 MT~~- 25 good oil full ^{wait Δw}* 26 filling good oil ^{GT6}

27 > mt

28

~~29 T3 ↓ 14~~

30 Down to FBX

Notes

12 put A-Water #23 good oil
26 + 21

9001 sludge

9004 Done 5:15

9005 Done 5:45

9006 MIA

Danya

4-9-00 AFT

~~ing 8000~~
Full

- 9 FULL
- 10 NELSON
- 11 FILLING LTV #1 ⁶⁰⁰⁰
- 12 MT
- 13 —
- 14 FULL
- 15 mt
- 16
- 17 MT
- 18 FLOOR
- 19 —
- 20 mt
- 21 GOOD OIL - FULL
- 22 A. WATER $\frac{1}{2}$
- 23 A. WATER FULL
- 24 MT
- 25 ~~GOOD OIL~~ MT
- 26 GOOD OIL - BOTTOM DROPPED
- 27 mt
- 28 mt
- 29 $\frac{1}{4}$ T.3
- 30 N.I.V.

NOTES: TANK 24 WAS MT, TANK 29 WAS $\frac{1}{4}$

good oil

- DONE 9000 > LOADED 6250 SUDGE ON LOWER PDS
- DONE 9001
- 9002 — N.I.V. # 5000 IS EMPTY
- 9003 MT
- DONE 9004 LOADED 6250 GOOD OIL *DOWN TO OIL ON T: 1
- DONE 9005 " " " "
- DONE 9006 " " " "
- DONE 9401 > MT
- DONE 9405

4-10-00 mid

- 9 Full Treated at 9:30am 175° w/caustic
 10 Nelson
 11 filling
 12 ~~mt~~ 1x warren
 13 —
 14 full Treated at 10:30 180° w/caustic
 15 mt
 16 mt
 17 mt
 18 floor
 19 —
 20 ~~mt~~ 1x YPSP Done need to do
 21 full good oil
 22 a-water 1½
 23 full a-water
 24 ~~mt~~ 1x YPSP Done Drop water
 25 mt
 26 good oil
 27 mt
 28 mt
 29 mt
 30 N.I.U

Note's

9006, is loaded for LTV
 good oil just ~~not~~ in
 right spot

id

Afternoon 4-10-00

175° w/caustic

- 9 good oil moved to 26 MT
- 10 Nelson
- 11 treated at 900pm 170° w/ACID
- 12 treated at 730pm 180° good oil drop bottoms w/ACID
- 13 -

180° w/caustic

- 14 good oil drop bottoms MT
- 15 LTV + Buick Full
- 16 LTV
- 17 LTV Full
- 18 Floor
- 19 -

need to drop

- 20 4 PSI water drop + LTV
- 21 ~~4 PSI water drop~~ good oil ~~at level~~ Full good
- 22 ~~at level~~ 1 1/2 oil 11 and 12
- 23 Full A water

water

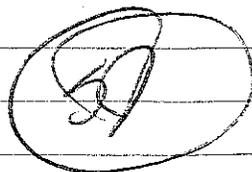
- 24 4 PSI water drop 11 or 12
- 25 MT good oil moved into MT
- 26 MT good oil moved into full
- 27 MT
- 28 T-3
- 29 T-3 Full
- 30 NTU

9006 moved into 20

in LTV

~~in~~ in

- ① Fill 28+29 with T-3 oil Done
- ② Keep cleaning Tank + Plant
- ③ One Sludge Trailer is already Loaded
- ④ make sure all samples are taken even to ever clear
- ⑤ 9000 - sludge
- 9001 - sludge Done
- 9002 - MT
- 9003 - MT
- 9004 - Good oil Done
- 9005 - Good oil Done
- 9006 - Good oil



9 mt

10 Nelson

11 need to top water mt

12 ~~mover good~~ ~~for oil~~ mt

13 —

14 mt

15 full LTV + Buick

16 LTV

17 full LTV

18 floor

19 —

20 ~~YPSA~~ ~~to LTV~~ mt

21 good oil Full

22 oil 11+12

23 full A-water

24 YPSA 11+12

~~25 mt good oil~~

26 good oil full

27 mt

28 T3

29 T3 full

30 N.P.U

mt
mt

- 9 1x Buick Full treated at 130 am 170° w/caustic
- 10 Nelson
- 11 filling Full
- 12 filling Full treated at 1230 am 170° w/CFD
- 13 —
- 14 Ready for Caustic ^{8MT} treated w/c need heat
- 15 mt
- 16 > full LTV
- 17
- 18 floor
- 19 —
- 20 mt 1x YPSO
- 21 good oil full mix Det Diesel
- 22 mt Rouge + Grand Rouge Full
- 23 full a. water 1/4
- 24 1/4
- 25 good oil full mix Det Diesel
- 26 ~~good oil full mix Det Diesel MT~~
- 27 mt
- 28 T-3
- 29 T-full
- 30 N. P. U

Notes

9000 mt

- ① Only Discharge 5:00pm
- ② only Load good oil from 25+26
- ③ ✓ T-3 level
- ④ Skim T-5 if you can

4-11-00AFT

- 9 treated at 130am 170 with Caustic
 10 \downarrow 1/4 Water
 11 Full Heating
 12 treated at 1230am 170
 13
 14 \uparrow 3/4 Heating
 15 MT
 16 110512
 17 110512
 18 Floor
 19 -
 20 4PST
 21 good oil Full
 22 ~~good~~ 110512 Full LTV Grand Blaine
 23 LTV X1
 24 \downarrow 1/4
 25 good oil Full
 26 ~~MT~~ good oil
 27 MT
 28 T-3
 29 T-3 Full
 30 Don't ~~use~~ down for repairs

Notes

- * 9000 MT
- * 9006 is dead but 9006 used to be unloader
- * 9403 MT
- * 9004 9005 load for LTV
- * $\sqrt{3}$ bc for you sbc it
- * 9001 move to 23

* Stan I can not get any thing done to
 - " " " " " " " " " " " "

astic

9 ~~seven to #3~~ mt filled with half of H

10 mt

11 ~~and~~ treated at 10:30 AM at 190° w/ACID

12 mt filling LTV + Buick + 23 Full

13 ~~---~~ treated 600g mt

14 ~~split~~ split Between 9 + 14 treated w/c 190°

15 mt

16 11 and 12

17 11 and 12

18 floor

19 ~~---~~

20 YPSP treated 180 w/crylic need to drop water drop

21 full good oil

22 full 11 or 12

23 LTV + 1 Full

24 mt

25 full good oil mt

26 full good oil

27 floor water

28 T3 full

29 T3 full

30 ~~---~~ N.P.U

[Notes]

1 to 6 unbedded

9 + 14 are half top off with Buick then hit whit acid

up dark
... and T

4-12-00AFT

- ✓ 9 treated at 12:30am 170° good oil ✓ For Bottom ^{w/c}
- 10 MT
- 11 treated at 10:30am 190° good oil ^{v/100%} moved to 25 MT
- 12 treated at 6:00pm 170° good oil ^{just after} moved to 25 MT
- 13 ✓
- 14 treated at 10pm 180° good oil moved to 26 MT.
- 15 MT
- 16 11 or 12
- 17 MT
- 18 Floor
- 19 —
- ✓ 20 LTV
- 21 good oil
- 22 11 or 12
- 23 11 or 12
- 24 MT
- 25 good oil moved into
- 26 good oil moved into full
- 27 floor water
- 28 T-3
- 29 T-3
- 30 Donut use

Notes

- * 9005 9004 9006 ready for LTV
- * ⁹⁰⁰9000 ready for every year

* ✓ 9 For bottoms

4-13-60

DAY

- 9 YPSI - Drop water
- 10 Rooge $\frac{1}{4}$
- 11 Cooling (water dropped)
- 12 Cooling " "
- 13 —
- 14 YPSI (~~water~~ ~~dropped~~)
- 15 MT
- 16 $\downarrow \frac{1}{4}$
- 17 Buick
- 18 floor
- 19 —
- 20 11 or 12
- 21 Good oil
- 22 MT
- 23 A-water MTLTV
- 24 C+A water
- 25 Good oil \rightarrow must \checkmark for bottoms before using
- 26 Good oil
- 27 floor
- 28 T-3
- 29 T-3
- 30 N.I.U

NOTES:

DAY

4-13-00 AFT.

- 9 treated at 230 am 175° w/caustic
- 10 Down to oil
- 11 treated at 420 am 170° w/ACID
- 12 Filling + heat
- 13 —
- 14 VPSE X1
- 15 Full Buick 11 or 12 moved to 12
- 16 ↓ 1/4 11 or 12 next to 12
- 17 Moved to 11 MT
- 18 Floor
- 19 —
- 20 MT
- 21 good oil full
- 22 good oil full
- 23 MT
- 24 ↓ 1/4 oil Next to 12
- 25 good oil
- 26 good oil
- 27 Floor
- 28 F3
- 29 T-3
- 30 Do not use

before using

Notes

* 9004 9005 ready for LTV
 9001 ~~needed~~ to be also moved into 11

* Stan Tyone will be leaving at 12 am ~~4-14-00~~
 and on 4-22-00 Sat 12 am

* Bill came in at 1030 pm ~~ready~~

4-13-00

- 9 moved a water
- 10 Down to oil
- 11 treated at 4:20 am 120° moved
A Water
- 12 fitting treated at 12 pm temp 180° w/acc
- 13 —
- 14 1 ypsp
- 15 mt
- 16 mt
- 17 mt
- 18 floor
- 19 —
- 20 mt
- 21 full good oil
- 22 full good oil
- 23 mt
- 24 mt
- 25 good oil
- 26 ~~good oil~~ MT
- 27 floor
- 28 T3
- 29 T3
- 30 N.P.U.

ACIS ENVIRONMENTAL LABORATORIES

2818 CLIFFORD - DETROIT, MI. 48201
(313) 984-1203 FAX (313) 984-1203

SPECIALISTS IN ENVIRONMENTAL TECHNOLOGY

REPORT #: 01297-00593-3
REPORT DATE: 1-15-98

P.O.#: Verbal

SRS/SYBILL, INC.,
111 Military
Detroit, MI 48209

Attn: Mr. Gary Berndt

Sample of: One (1) Oil labeled: ~~XXXXXXXXXX~~ Three (3) Month Sample.

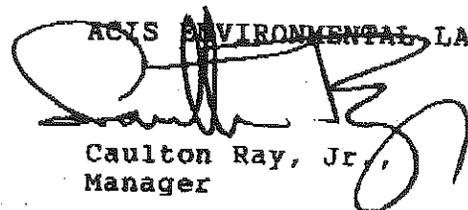
Services Requested: Perform Analysis per SRS Three (3) Month Analysis
Schedule - ASTM - EPA Test Methods.

Results:

| <u>METALS (PPM)</u> <u>PARAMETERS</u> | <u>METHOD</u> | <u>ANALYSTS/DATE</u> | <u>RESULTS</u> |
|--|---------------|----------------------|-------------------|
| Arsenic | 6010 | CR/ 1-6-98 | =1.0 ⁵ |
| Cadmium | 6010 | CR/ 1-6-97 | =0.5 ¹ |
| Chromium | 6010 | CR/ 1-6-97 | =2.5 ⁵ |
| Lead | 6010 | CR/ 1-6-97 | 3.0 ⁵ |
| Beryllium | 6010 | CR/ 1-6-97 | =1.0 |
| Manganese | 6010 | CR/ 1-6-97 | =1.0 |
| Mercury | 6010 | CR/ 1-6-97 | =0.1 ² |
| Nickel | 6010 | CR/ 1-6-97 | =1.0 |

Note: = Denotes Less Than.

Results Representative of sample as submitted to Laboratory.

ACIS ENVIRONMENTAL LABORATORIES

Caulton Ray, Jr.
Manager

CR:rw

SPECIALIST IN ENVIRONMENTAL TECHNOLOGY - RESOURCE RECOVERY

ACIS ENVIRONMENTAL LABORATORIES

2516 CLIFFORD - DETROIT, MI. 48201

Sample I.D.: 01297-00593-3

Sample Date: 12-16-97

Sample Matrix: Oil

Page-2-

Results:(continued)

| <u>PARAMETER</u> | <u>METHOD</u> | <u>ANALYSTS/DATE</u> | <u>RESULTS</u> |
|------------------|---------------|----------------------|----------------|
| Sulfur % | D-1552 | CR/ 12-19-97 | 0.70% |
| Halogens (PPM) | 9077 | CR/ 12-29-97 | 2600 |
| Ash % | D-482 | DJ/ 12-29-97 | =0.1% |
| API Gravity | --- | DJ/ 12-29-97 | 27.5 |
| Density | --- | DJ/ 12-29-97 | 0.8895 |
| Flash Point (Ig) | 1010 | DJ/ 12-30-97 | 300°F |
| Pour Point | D-97 | DJ/ 12-30-97 | -15°F |
| B S & W % | D-96 | DJ/ 1-6-98 | 1.2% |
| Viscosity @40°C | D-445 | DJ/ 1-6-97 | 28 cs/133 SU |
| Water | --- | CR/ 1-6-97 | 0.60% |
| PCB (Total) | 8080 | CR/ 12-29-97 | =1.0 |
| 1242 | 8080 | CR/ 12-29-97 | =1.0 |
| 1260 | 8080 | CR/ 12-29-97 | =1.0 |
| Btu/gal., | D-240 | CR/ 1-6-97 | 140,200 |

Note: = Denotes Less Than.

ACIS ENVIRONMENTAL LABORATORIES

ACIS ENVIRONMENTAL LABORATORIES

2616 CLIFFORD - DETROIT, MI. 48201
(313) 964-3119 FAX (313) 964-1203

SPECIALISTS IN ENVIRONMENTAL TECHNOLOGY

REPORT #: 0997-00439-3
REPORT DATE: 10-7-97

P.O.#: Verbal

SRS/SYBILL, INC.,
111 Military
Detroit, MI 48209

Attn: Mr. Gary Berndt

Sample of: One (1) Oil labeled: ~~XXXXXXXXXX~~ Three (3) Month Sample.

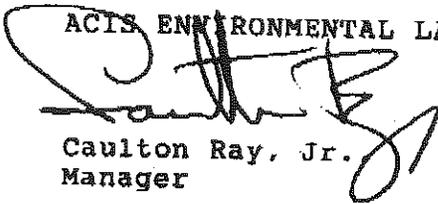
Services Requested: Perform Analysis per SRS Three (3) Month Analysis
Schedule - ASTM - EPA Test Methods.

Results:

| <u>METALS (PPM)</u> | <u>METHOD</u> | <u>ANALYSTS/DATE</u> | <u>RESULTS</u> |
|---------------------|---------------|----------------------|----------------|
| Arsenic | 6010 | CR/ 9-18-97 | =1.0 S |
| Cadmium | 6010 | CR/ 9-18-97 | =0.5 S |
| Chromium | 6010 | CR/ 9-18-97 | =2.5 S |
| Lead | 6010 | CR/ 9-18-97 | 2.5 S |
| Beryllium | 6010 | CR/ 9-18-97 | =1.0 |
| Manganese | 6010 | CR/ 9-18-97 | =1.0 |
| Mercury | 6010 | CR/ 9-18-97 | =0.1 S |
| Nickel | 6010 | CR/ 9-18-97 | =1.0 |

Note: = Denotes Less Than.

ACIS ENVIRONMENTAL LABORATORIES


Caulton Ray, Jr.
Manager

CR:rw

SPECIALIST IN ENVIRONMENTAL TECHNOLOGY - RESOURCE RECOVERY

ACIS ENVIRONMENTAL LABORATORIES
2616 CLIFFORD - DETROIT, MI. 48201

Sample I.D.: 0997-00439-3
Sample Date: 9-10-97
Sample Matrix: Oil
Page-2-

Results:(continued)

| <u>PARAMETER</u> | <u>METHOD</u> | <u>ANALYSTS/DATE</u> | <u>RESULTS</u> |
|------------------|---------------|----------------------|----------------|
| Sulfur % | D-1552 | CR/ 9-15-97 | 0.60% |
| Halogens (PPM) | 9077 | CR/ 9-15-97 | 2975 |
| Ash % | D-482 | DJ/ 9-24-97 | =0.1% |
| API Gravity | --- | DJ/ 9-24-97 | 27.8 |
| Density | --- | DJ/ 9-24-97 | 0.8873 |
| Flash Point (Ig) | 1010 | DJ/ 9-24-97 | 260°F |
| Pour Point | D-97 | DJ/ 9-30-97 | -25°F |
| B S & W % | D-96 | DJ/ 9-30-97 | 1.2% |
| Viscosity @40°C | D-445 | DJ/ 9-30-97 | 25.5 cs/122 SU |
| Water | --- | CR/ 9-30-97 | =0.5% |
| PCB (Total) | 8080 | CR/ 9-15-97 | =1.0 |
| 1242 | 8080 | CR/ 9-15-97 | =1.0 |
| 1260 | 8080 | CR/ 9-15-97 | =1.0 |
| Btu/gal., | D-240 | CR/ 9-30-97 | 140,050 |

Note: = Denotes Less Than.

ACIS ENVIRONMENTAL LABORATORIES

ACIS ENVIRONMENTAL LABORATORIES

2816 CLIFFORD - DETROIT, MI. 48201
(313) 964-3119 FAX (313) 964-1203

SPECIALISTS IN ENVIRONMENTAL TECHNOLOGY

REPORT #: 0697-00300-2
REPORT DATE: 7-24-97

P.O.#: Verbal

SRS/SYBILL, INC.,
111 Military
Detroit, MI 48209

Attn: Mr. Gary Berndt

Sample of: One (1) Oil sample labeled: ~~XXXXXXXXXX~~ Three (3) Month Sample.

Services Requested: Perform Analysis per SRS Three (3) Month Analysis
Schedule- ASTM - EPA Test Methods.

Results:

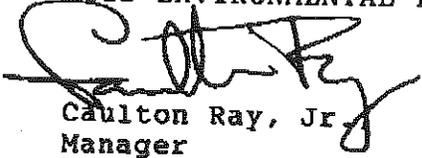
METALS (PPM)

| <u>PARAMETERS</u> | <u>METHOD</u> | <u>ANALYSTS/DATE</u> | <u>RESULTS</u> |
|-------------------|---------------|----------------------|-------------------|
| Arsenic | 6010 | CR/ 6-26-97 | =1.0 ⁵ |
| Cadmium | 6010 | CR/ 6-26-97 | =0.5 ¹ |
| Chromium | 6010 | CR/ 6-26-97 | =2.5 ⁵ |
| Lead | 6010 | CR/ 6-26-97 | 3.0 ⁵ |
| Beryllium | 6010 | CR/ 6-26-97 | =1.0 |
| Manganese | 6010 | CR/ 6-26-97 | =1.0 |
| Mercury | 6010 | CR/ 6-26-97 | =0.1 ² |
| Nickel | 6010 | CR/ 6-26-97 | =1.0 |

Note: = Denotes Less Than.

Results Representative of sample as submitted to Laboratory.

ACIS ENVIRONMENTAL LABORATORIES


Caulton Ray, Jr.
Manager

CR:rw

SPECIALIST IN ENVIRONMENTAL TECHNOLOGY RESOURCE RECOVERY

ACIS ENVIRONMENTAL LABORATORIES

2016 CLIFFORD - DETROIT, MI. 48201

Sample I.D.: 0697-00300-2

Sample Date: 6-20-97

Sample Matrix: Oil

Page-2-

Results:(continued)

| <u>PARAMETER</u> | <u>METHOD</u> | <u>ANALYSTS/DATE</u> | <u>RESULTS</u> |
|------------------|---------------|----------------------|----------------|
| Sulfur % | D-1552 | CR/ 6-25-97 | 0.54% |
| Halogens (PPM) | 9077 | CR/ 6-25-97 | 2750 |
| Ash % | D-482 | DJ/ 7-10-97 | 0.14% |
| API Gravity | --- | DJ/ 7-10-97 | 27.0 |
| Density | --- | DJ/ 7-10-97 | 0.8923 |
| Flash Point (Ig) | 1010 | DJ/ 7-14-97 | 260°F |
| Pour Point | D-97 | DJ/ 7-14-97 | -20°F |
| B S & W % | D-96 | DJ/ 7-14-97 | 1.2% |
| Viscosity @40°C | D-445 | DJ/ 7-15-97 | 30 cs/142 SUS |
| Water | --- | DJ/ 7-10-97 | 0.4% |
| PCB (Total) | 8080 | CR/ 6-25-97 | =1.0 |
| 1242 | 8080 | CR/ 6-25-97 | =1.0 |
| 1260 | 8080 | CR/ 6-25-97 | =1.0 |
| Btu/gal., | D-240 | CR/ 6-25-97 | 140,750 |

Note: = Denotes Less Than.

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2818 CLIFFORD - DETROIT, MI. 48201
(313) 964-3119 FAX (313) 964-1203

SPECIALISTS IN ENVIRONMENTAL TECHNOLOGY

REPORT#: 0397-00199-2
REPORT DATE: 4-10-97

P.O.#: Verbal

SRS/SYBILL, INC.
111 Military
Detroit, MI 48209

Attn: Mr. Gary Berndt

Sample of: one (1) oil labeled: 3-12-97 Three (3) Month Sample.

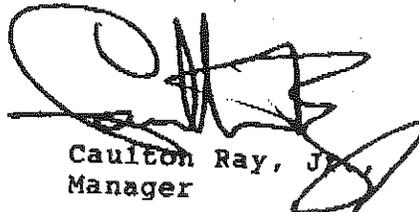
Services Requested: Perform analysis per SRS three (3) month analysis schedule - ASTM- EPA Test Methods.

Results:

METALS (PPM)

| <u>PARAMETERS</u> | <u>METHOD</u> | <u>ANALYSTS/DATE</u> | <u>RESULTS</u> |
|-------------------|---------------|----------------------|----------------|
| Arsenic | 6010 | CR/3-17-97 | =1.0 |
| Cadmium | 6010 | CR/3-17-97 | =0.5 |
| Chromium | 6010 | CR/3-17-97 | 1.5 |
| Lead | 6010 | CR/3-17-97 | 3.5 |
| Beryllium | 6010 | CR/3-17-97 | =0.5 |
| Manganese | 6010 | CR/3-17-97 | =0.5 |
| Mercury | 6010 | CR/3-17-97 | =0.1 |
| Nickel | 6010 | CR/3-17-97 | =0.5 |

ACIS ENVIRONMENTAL LABORATORIES


Caulton Ray, Jr.
Manager

CR:mr

SPECIALIST IN ENVIRONMENTAL TECHNOLOGY - RESOURCE RECOVERY

ACIS ENVIRONMENTAL LABORATORIES

2818 CLIFFORD - DETROIT, MI. 48201

Sample I.D.: 0397-00119-2

Sample Date: 3-12-97

Sample Matrix: Oil

Page -2-

Results (continued)

| <u>PARAMETER</u> | <u>METHOD</u> | <u>ANALYSTS/DATE</u> | <u>RESULTS</u> |
|------------------|---------------|----------------------|----------------|
| Sulfur % | D-1552 | CR/3-19-97 | 0.63% |
| Halogens (PPM) | 9077 | CR/3-19-97 | 2850 |
| Ash % | D-482 | DJ/3-18-97 | =0.1% |
| API Gravity | | DJ/3-18-97 | 27.7 |
| Density | | DJ/3-18-97 | 0.8883 |
| Flash Point (Ig) | 1010 | DJ/3-18-97 | 220°F+ |
| Pour Point | D-97 | CR/3-19-97 | -30°F |
| B S & W | D-96 | DJ/3-18-97 | 1.0% |
| Viscosity @40°C | D-445 | DJ/3-18-97 | 26cs/124 SUS |
| Water | | CR/3-19-97 | =0.5% |
| PCB (Total) | 8080 | CR/3-20-97 | =1.0 |
| 1242 | 8080 | CR/3-20-9 | =1.0 |
| 1260 | 8080 | CR/3-20-97 | =1.0 |
| BTU/Gal. | D-240 | CR/3-19-97 | 141,500 |

ACIS ENVIRONMENTAL LABORATORIES

= denotes less than

ACIS LABORATORIES

2600 CLIFFORD - DETROIT, MI. 48201
(313) 964-3119 FAX (313) 964-1203

SPECIALISTS IN PETROLEUM TECHNOLOGY

REPORT #: E-01095-59-1
REPORT DATE: 10-25-95

P.O.#: Verbal

SYBILL, INC.,
111 Military
Detroit, MI 48209

Attn: Mr. Gary Berndt

Sample of: Sludge from Oil Reclamation- Sample #LF 301- 9-29-95.

Services Requested: Perform Analysis to determine:

Total Halogens- ASTM D-808(Digestion)
ASTM D-512 (Chlorine)

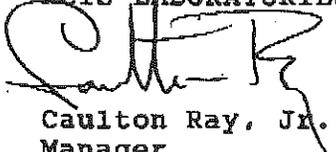
Results:

Total Halogens -----1012 PPM

Dates of Analysis: 10-23-24-95

Analyst: CR

The test results are representative of the sample as submitted to Laboratory.

ACIS LABORATORIES

Caulton Ray, Jr.,
Manager

CR:rw

ACIS LABORATORIES

2600 CLIFFORD • DETROIT, MI 48201
(313) 964-3119 FAX (313) 964-1203

SPECIALISTS IN PETROLEUM TECHNOLOGY

REPORT #: 9410-3183
REPORT DATE: 10-19-94

P.O.#: Verbal

SYBILL, INC.,
111 Military
Detroit, MI 48209

Attn: Mr. Gary Berndt

Sample of: Wastewater Treatment Sludge- 10-14-94.

Services Requested: Perform Analysis to determine:

TCLP- SW 846.

Dates of Analysis: 10-14-17-18-94
Analysts: DJ/CR/RR

Results reported on attached pages.

CR:rw

ACIS LABORATORIES

Carlton Ray, Jr.,
Manager

ACIR LABORATORIES

266 CLIFFORD DETROIT, MI 48201

Sample I.D.: 9410-3183
 Sample Date: 10-14-94
 Sample Matrix: Sludge

| <u>EPA #:</u> | <u>PARAMETERS</u> | <u>LIMITS</u> | |
|---------------|--|---------------|------------|
| D001 | <u>Ignitability:</u> Flash Point(T.C. °F) | 140°F Min., | 180°F+ |
| D002 | <u>Corrosivity:</u> PH | 2 - 12.5 | 6.2 |
| D003 | <u>Reactivity:</u> Cyanide Sulfides | --- --- | N/D =10 |
| | <u>TCLP: Mg/l</u> | | |
| D004 | Arsenic | 5.0 | 1.5 |
| D005 | Barium | 100 | 2.0 |
| D006 | Cadmium | 1.0 | =0.1 |
| D007 | Chromium | 5.0 | 1.4 |
| D008 | Copper | 100 | =1.0 |
| D008 | Lead | 5.0 | =1.0 |
| D009 | Mercury | 0.20 | =0.1 |
| | Nickel | --- | =1.0 |
| D010 | Selenium | 1.0 | 0.12 |
| D011 | Silver | 5.0 | =1.0 |
| 003D | Zinc | 500 | 2.0 |

Note: = denotes less than.

ADL LABORATORIES

2820 CLIFFORD • DETROIT, MI. 48201

Sample I.D.: 9410-3183

Sample Date: 10-14-94

Sample Matrix: Sludge

| <u>PARAMETERS</u> | <u>REG., LIMITS</u> | <u>DETECTION LIMIT</u> | <u>RESULTS</u> |
|-----------------------|---------------------|------------------------|----------------|
| <u>TCLP: Mg/l</u> | | | |
| <u>Extract Level:</u> | | | |
| O-Cresol | 200 | 0.1 | =5 |
| M-Cresol | 200 | 0.1 | #5 |
| P-Cresol | 200 | 0.1 | =5 |
| Cresol | 200 | 0.1 | #5 |
| 2,4-Dinitrotoluene | 0.13 | 0.1 | U |
| Hexachlorobenzene | 0.13 | 0.1 | U |
| Hexachlorobutadiene | 0.5 | 0.1 | U |
| Hexachloroethane | 3.0 | 0.1 | U |
| Nitrobenzene | 2.0 | 0.1 | U |
| Pentachlorophenol | 100 | 0.5 | U |
| Pyridine | 5.0 | 1 | U |
| 2,4,5-Trichlorophenol | 400 | 0.2 | U |
| 2,4,6-Trichlorophenol | 2.0 | 0.2 | U |
| Chlordane | 0.03 | 0.005 | U |
| Endrin | 0.02 | 0.002 | U |
| Hepachlor | 0.008 | 0.001 | U |
| Hepachlor epoxide | 0.008 | 0.001 | U |
| Lindane | 0.4 | 0.001 | U |
| Methoxychlor | 10 | 0.005 | U |
| Toxaphene | 0.5 | 0.001 | U |
| 2,4-D | 10 | 0.05 | U |
| Silvex | 1.0 | 0.02 | U |
| | | | |
| <u>ZHE: Mg/l</u> | | | |
| <u>Extract Level</u> | | | |
| Benzene | 0.5 | 0.004 | U |
| Carbon Tetrachloride | 0.5 | 0.002 | U |
| Chlorobenzene | 100 | 0.002 | U |
| Chloroform | 6.0 | 0.01 | U |
| 1,4-Dichlorobenzene | 7.5 | 0.004 | U |
| 1,2-Dichloroethane | 0.5 | 0.003 | U |

U - Analyte not detected at Method Detection Limit.

ACIS ENVIRONMENTAL LABORATORIES

2816 CLIFFORD - DETROIT, MI. 48201
(313) 964-5230 FAX (313) 964-1203

SPECIALISTS IN ENVIRONMENTAL TECHNOLOGY

REPORT #: E-01195-79
REPORT DATE: 11-14-95

P.O.#: 0804

SYBILL, INC.
111 Military
Detroit, MI 48209

Attn: Mr. Nickolas Dibrano

Sample of: Two (2) samples of liquid labeled: *Source of Samples*
Oil Storage tanks

1. DI-0101 >
2. SO 0102 >

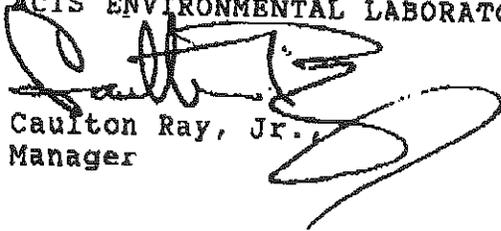
Services Requested: Perform analysis to determine the following:

1. PCB EPA 8080
2. Halogens EPA 9077/ASTM D808
3. Metals EPA SW 846

Results reported on attached page.

Dates of Analysis: 11/10-13-14/95
Analysts: CR/DJ

ACIS ENVIRONMENTAL LABORATORIES


Caulton Ray, Jr.
Manager

CR/mr

OIL

ACIS LABORATORIES
2600 CLIFFORD - DETROIT, MI 48201

Sample I.D.: E 01195-79
Sample Date: 11-9-95
Sample Matrix: Liquid

| EPA #: | PARAMETERS | LIMITS | RESULTS | |
|--------|--|---------|----------|----------|
| | | | SO-0102 | DI 0101 |
| D001 | <u>Ignitability:</u> Flash Point (T.C.°F) -140°F Min. | | 180+ | 180+ |
| D002 | <u>Corrosivity</u> pH | 2 -12.5 | 7.8 | 8.2 |
| D003 | <u>Reactivity:</u> Cyanide Sulfides | | =5 =5 | =5 =5 |
| | <u>TCLP: Mg/l</u> | | | |
| D004 | Arsenic | 5.0 | =1.0 | =1.0 |
| D005 | Barium | 100 | 1.2 | =1.0 |
| D006 | Cadmium | 1.0 | =0.1 | =1.0 |
| D007 | Chromium | 5.0 | =1.0 | =1.0 |
| 001D | Copper | 100 | =1.0 | =1.0 |
| D008 | Lead | 5.0 | =1.0 | =1.0 |
| D009 | Mercury | 0.20 | =0.1 | =0.1 |
| | Nickel | | =1.0 | =1.0 |
| D101 | Selenium | 1.0 | =0.1 | =0.1 |
| D011 | Silver | 5.0 | =1.0 | =1.0 |
| 003D | Zinc | 500 | 4.8 | 2.0 |
| | Total Halogens | | 130 | 110 |
| | PCB (Total Arochlors) | | =1.0 | =1.0 |

NOTE: = denotes less than

ACIS ENVIRONMENTAL LABORATORIES

2816 CLIFFORD - DETROIT, MI. 48201
(313) 964-5230 FAX (313) 964-1203

SPECIALISTS IN ENVIRONMENTAL TECHNOLOGY

REPORT#: E-01095-71
REPORT DATE: 11-8-95

P.O.#: Verbal

SYBILL, INC.,
111 Military
Detroit, MI 48209

Attn: Mr. Gary Berndt

Samples of: Four (4) Samples of Oil labeled: ~~10-23-95~~.
Storage Tank at Sybill- Outbound Oil. *mixed oil*

A-1
B-2
C-3
D-4

Services Requested: Perform Analysis to determine:

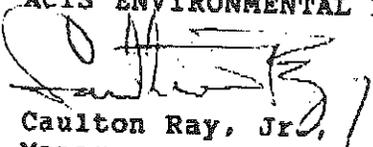
1. Total Halogens- EPA 9077
2. EPA- F001 - F002 / 40 CFR - 261.31 / EPA SW 846

Dates of Analysis: 10-27-30 / 11-6-95
Analysts: DJ/CR

The test results are representative of the samples as submitted to Laboratory.

Results reported on attached page.

ACIS ENVIRONMENTAL LABORATORIES


Caulton Ray, Jr.
Manager

CR:rw

ACIS ENVIRONMENTAL LABORATORIES
 2816 CLIFFORD - DETROIT, MI. 48201

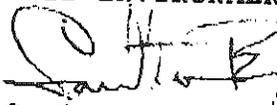
SYBILL, INC.,
 REPORT #E-01095-71
 Page-2-

PARAMETERS

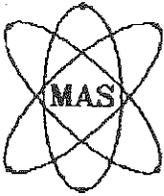
| EPA - 40 CFR FOO1 - FOO2/EPA | 261.31 SUBPART D SW 846 | MDL Ug/Kg/PPB | Results- Ug/Kg/PPB | | | |
|---------------------------------|-------------------------------|------------------|--------------------|------|------|------|
| | | | A-1 | B-2 | C-3 | D-4 |
| 0.7 Tetrachloroethylene ✓ | | 10 | =100 | =100 | =100 | =100 |
| 0.5 Trichloroethylene ✓ | | 10 | =100 | =100 | =100 | =100 |
| Methylene Chloride ✓ | | 10 | =100 | =100 | =100 | =100 |
| 1'1'1' - Trichloroethane ✓ | | 10 | =100 | =100 | =100 | =100 |
| Carbon Tetrachloride ✓ | | 10 | =100 | =100 | =100 | =100 |
| 0.5 Chlorobenzene ✓ | | 10 | =100 | =100 | =100 | =100 |
| 1',1',2- Trichloro ✓ | | --- | =100 | =100 | =100 | =100 |
| 1',1',2- Trifluorethane ✓ | | --- | =100 | =100 | =100 | =100 |
| Ortho-Dichlorobenzene ✓ | | 10 | =100 | =100 | =100 | =100 |
| Trichlorofluoromethane ✓ | | 10 | =100 | =100 | =100 | =100 |
| 1,1,2- Trichloroethane ✓ | | 10 | =100 | =100 | =100 | =100 |
| Total Halogens- EPA 9077 (PPM) | | --- | 1586 | 1905 | 1885 | 2197 |

Note: = denotes less than.

ACIS ENVIRONMENTAL LABORATORIES


 Caulton Ray, Jr.,
 Manager

CR:rw



Midwest Analytical Services, Inc.

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Metropolitan Center for High Technology
2727 Second Avenue
Detroit, Michigan 48201

A2LA Accredited Certification # 0381-01
State of Wisconsin Certification #999941580
State of New Jersey Certification #62733
State of North Dakota Certification #R-085

P: 1-800-801-4MAS (MI, OH, WI, IN, IL)
: (313) 964-3680
F: (313) 964-2339

Date : 12-Aug-96

Client : Gary Berndt
Sybill Inc.

Mass# : 60726001

PROJECT: : 3 MONTH OIL ANALYSIS SCHEDULE

Sample I.D. : OIL #1 STORAGE 7/23/96 8:00AM

The above mentioned project has been completed in accordance with the quality control and quality assurance criteria specified by the American Association of Laboratory Accreditation/SW 846/MDNR/WDNR and EPA references from 40 CFR part 136 guidelines.

For your convenience the following legend applies to all the following data sheets.

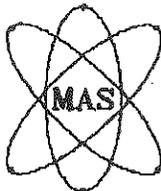
1. Reports shall not be reproduced, except in full, without written approval of Midwest Analytical Services, Inc.
2. N/D=Not detected above Estimated Quantitation Limit, N/A=Not applicable
3. Results relate only to the items tested.
4. mg/l, mg/kg, mg/kg(dry weight) equal ppm(parts per million)
µg/l, µg/kg, µg/kg(dry weight) equal ppb(parts per billion)

If you have any questions regarding this project please feel free to contact me at 1-800-801-4MAS or 1-313-964-3680.

Thanking You,

Sincerely,

Krystyna Czyzo
Lab. Quality Manager



Midwest Analytical Services, Inc.

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 State of New Jersey Certification #62733 F: (313) 964-2339
 State of North Dakota Certification #R-085

IN: SMR
 PAGE 1 OF 2

TEST REPORT

MAS #: 60726001

Gary Bernick
 Sybill Inc.
 111 Military
 Detroit, MI 48209-4102

DATE COMPLETED: 12-Aug-96

PROJECT: 3 MONTH OIL ANALYSIS SCHEDULE
 SAMPLE IDENTIFICATION: OIL #1 STORAGE 7/25/96 8:00AM
 PHYSICAL DESCRIPTION: OIL

FILE: WASTEAWCTC

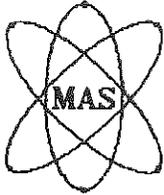
| METHOD # | PARAMETER | SAMPLE RESULT | UNITS | ESTIMATED QUANT. LIMIT | REGULATORY LIMIT | ANALYST | DATE ANAL. |
|--------------|--------------------------|---------------|--------|------------------------|---------------------|---------|------------|
| SW 846 9045C | *pH/CORROSIVITY | 7.79 | UNITS | N/A | <2 : > 12.5 D002 | MB | 07/31/96 |
| EPA 160.4 | % ASH | N/D | % | 1.0 | ---- | CDT | 08/01/96 |
| ASTM D96 | BOTTOM SEDIMENTS & WATER | 0.90 | % | 0.10 | ---- | CH | 08/05/96 |
| ASTM D5057M | DENSITY | 7.30 | lb/gal | N/A | ---- | CDT | 08/02/96 |
| ASTM D5057M | API GRAVITY | 31 | --- | N/A | ---- | CDT | 08/02/96 |
| SW 846 1010 | IGNITIBILITY | > 200 | F | N/A | <140 D001 | CDT | 07/31/96 |
| SW-846 9076 | TOTAL HALOGENS | 3,000 | mg/kg | 100 | --- | MB | 08/01/96 |
| ASTM D-97 | POUR POINT | -35 | F | N/A | ---- | ** | 07/30/96 |
| ASTM D-445 | VISCOSITY AT 40°C | 23.8 | cSt | N/A | ---- | ** | 07/30/96 |
| ASTM D3792 | % WATER | N/D | % | 5.0 | ---- | LAF | 08/03/96 |
| SW 846 9060M | CARBON | > 111,000 | mg/kg | 500 | ---- | DJF | 08/02/96 |
| SW 846 6010 | SULFUR | 1,580 | mg/kg | 5.0 | ---- | KRW | 08/01/96 |
| SW-846 8080A | PCB: | | mg/kg | | --- | DGB | 07/31/96 |
| | AROCLOR 1016 | N/D | | 1.0 | | | |
| | AROCLOR 1221 | N/D | | 1.0 | | | |
| | AROCLOR 1232 | N/D | | 1.0 | | | |
| | AROCLOR 1242 | N/D | | 1.0 | | | |
| | AROCLOR 1246 | N/D | | 1.0 | | | |
| | AROCLOR 1254 | N/D | | 1.0 | | | |
| | AROCLOR 1260 | N/D | | 1.0 | | | |

*SAMPLE pH MEASURED IN WATER AT 20.0°C.

**SUBCONTRACTED TO CLEVELAND TECHNICAL CENTER

Krystyna Czyzo

Krystyna Czyzo
 Lab. Quality Manager



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State of New Jersey Certification #62733 F: (313) 964-2339
State of North Dakota Certification #R-085

IN: SMR
PAGE 2 OF 2

TEST REPORT (CONTINUED)

MAS #: 60726001

PROJECT: 3 MONTH OIL ANALYSIS SCHEDULE
SAMPLE IDENTIFICATION: OIL #1 STORAGE 7/25/96 8:00AM
PHYSICAL DESCRIPTION: OIL

| METHOD # | PARAMETER | SAMPLE RESULT | UNITS | ESTIMATED QUANT. LIMIT | REGULATORY LIMIT | ANALYST | DATE ANAL. |
|----------|--------------|---------------|-------|------------------------|------------------|---------|------------|
| SW-846 | TOTAL METALS | | mg/kg | | ---- | | |
| 6010A | ARSENIC | 1.5 | | 1.0 | | KRW | 08/02/96 |
| 6010A | CADMIUM | N/D | | 0.50 | | KRW | 08/02/96 |
| 6010A | CHROMIUM | 1.1 | | 1.0 | | KRW | 08/02/96 |
| 6010A | LEAD | 4.1 | | 1.0 | | KRW | 08/02/96 |

Krystyna Czyzo
Lab. Quality Manager

LABORATORY RESULTS

CLIENT: MARINE POLLUTION CONTROL *Transporter*

REPORT NUMBER: 26302 SAMPLE ID: 3070153 DESCRIPTION: MPC JOB #9736 ROUGH STEEL WASTE STREAMS/6907 TANDEN HILL OIL

DATE SAMPLED.....: N/A
TIME SAMPLED.....: N/A

DATE RECEIVED.....: 07/02/93
TIME RECEIVED.....: 11:40

| ANALYSES PERFORMED | ANALYTICAL RESULT | UNITS OF MEASURE | REGULATORY LIMIT | ANALYTICAL METHOD | RM DATE | TECHN |
|------------------------------|-------------------|------------------|------------------|-------------------|----------|-------|
| TCLP RCRA** | | | | | | |
| Ignitibility | > 200 | Degrees F | < 140 F | EPA 1010 | 07/06/93 | BP |
| Corrosivity | 7.8 | pH Units | < 2, > 12.5 | EPA 9040 | 07/07/93 | JM |
| REACTIVITY | | | | | | |
| As Cyanide | < 0.10 | mg/l | VARIABLE | EPA 9010 | 07/07/93 | DM |
| As Sulfide | < 0.50 | mg/l | VARIABLE | EPA 9030 | 07/07/93 | DM |
| Arsenic, TCLP | < 0.40 | mg/l | 5.0 | EPA 6010 | 07/07/93 | CH |
| Barium, TCLP | 0.31 | mg/l | 100.0 | EPA 6010 | 07/07/93 | CH |
| Cadmium, TCLP | < 0.01 | mg/l | 1.0 | EPA 6010 | 07/07/93 | CH |
| Chromium, TCLP | < 0.02 | mg/l | 5.0 | EPA 6010 | 07/07/93 | CH |
| Copper, TCLP | 0.11 | mg/l | 100.0 | EPA 6010 | 07/07/93 | CH |
| Lead, TCLP | < 0.10 | mg/l | 5.0 | EPA 6010 | 07/07/93 | CH |
| Mercury, TCLP | < 0.0025 | mg/l | 0.2 | EPA 7670 | 07/07/93 | CH |
| Selenium, TCLP | < 1.0 | mg/l | 1.0 | EPA 6010 | 07/07/93 | CH |
| Silver, TCLP (Silver) | < 0.05 | mg/l | 5.0 | EPA 6010 | 07/07/93 | CH |
| Zinc, TCLP (Zinc) | 0.05 | mg/l | 500.0 | EPA 6010 | 07/07/93 | CH |
| TCLP ORGANICS** | | | | | | |
| ZSE ORGANICS FOR TCLP RCRA** | | | | | | |
| Benzene | < 0.005 | mg/l | 0.5 | 8010/8020 | 07/13/93 | KZ |
| Carbon Tetrachloride | < 0.005 | mg/l | 0.5 | | | |
| Chlorobenzene | < 0.005 | mg/l | 7.5 | | | |
| Chloroform | < 0.005 | mg/l | 6.0 | | | |
| 1,2-Dichloroethane | < 0.005 | mg/l | 0.5 | | | |
| 1,1-Dichloroethane | < 0.005 | mg/l | 0.7 | | | |
| Methyl Ethyl Ketone | < 0.05 | mg/l | 200.0 | | | |
| Tetrachloroethane | < 0.005 | mg/l | 0.7 | | | |
| Trichloroethane | < 0.005 | mg/l | 0.5 | | | |
| Vinyl Chloride | < 0.05 | mg/l | 0.2 | | | |
| BASE NEUTRALS, TCLP** | | | | | | |
| Hexachlorobutadiene | 0.89 | mg/l | 0.5 | EPA 8100 | 07/08/93 | LP |
| Hexachlorobenzene | < 0.10 | mg/l | 0.13 | | | |
| 2,4-Dinitrotoluene | < 0.10 | mg/l | 0.13 | | | |
| Hexachlorocyclopentadiene | < 0.10 | mg/l | 3.0 | | | |
| Nitrobenzene | < 0.10 | mg/l | 2.0 | | | |
| 1,4-Dichlorobenzene | < 0.005 | mg/l | 7.5 | | | |
| Pyridine | < 0.10 | mg/l | 5.0 | | | |
| ACID EXTRACTS, TCLP** | | | | | | |
| m,p,Cresol | < 0.10 | mg/l | 200.0 | EPA 8040 | 07/08/93 | LP |
| Pentachlorophenol | < 0.20 | mg/l | 100.0 | | | |
| 2,4,5-Trichlorophenol | 0.47 | mg/l | 400.0 | | | |
| 2,4,6-Trichlorophenol | 0.17 | mg/l | 2.0 | | | |
| PESTICIDES, TCLP** | | | | | | |
| Chlordane | < 0.01 | mg/l | 0.03 | EPA 8080 | 07/13/93 | MB |
| Heptachlor Epoxide | < 0.005 | mg/l | 0.008 | | | |

** TCLP results are not spike recovery corrected.

...of results shown apply only to the sample analyzed. This report may only be reproduced in full, and may only be submitted to a third party with the written permission of MARINE POLLUTION CONTROL.

LABORATORY RESULTS
 CLIENT: MARINE POLLUTION CONTROL

REPORT NUMBER: 26362 SAMPLE ID: 3070153 DESCRIPTION: MPC JOB #9736 BOUGE STEEL WASTE STREAMS/6907 TANDEN HILL OIL

DATE SAMPLED.....: N/A
 TIME SAMPLED.....: N/A

DATE RECEIVED.....: 07/02/93
 TIME RECEIVED.....: 11:40

| ANALYSES PERFORMED | ANALYTICAL RESULT | UNITS OF MEASURE | REGULATORY LIMIT | ANALYTICAL METHOD | RUN DATE | TECHN |
|---------------------|-------------------|------------------|------------------|-------------------|----------|-------|
| Endrin | < 0.005 | mg/l | 0.02 | | | |
| Gamma-BHC (Lindane) | < 0.02 | mg/l | 0.4 | | | |
| Methoxychlor | < 0.01 | mg/l | 10.0 | | | |
| Toxaphene | < 0.1 | mg/l | 0.5 | | | |
| Heptachlor | < 0.005 | mg/l | 0.008 | | | |
| HERBICIDES, YCLP** | | | | EPA 8150 | 07/07/93 | NS |
| 2,4-D | < 0.02 | mg/l | 10.0 | | | |
| 2,4,5-TP (Silvex) | < 0.02 | mg/l | 1.0 | | | |

** YCLP results are not spike recovery corrected.

ANALYTICAL REPROT FROM MARTIN ENVIRONMENTAL, March 20, 1998

Waste Rolling Solution is the #7C Tandem Mill Oil Wastestream

RO 60 is the Tandem Mill Oil



12610 Newburgh Road
 Livonia, Michigan 48150
 (313)591-1855, Fax (313)591-3331

ANALYTICAL REPORT

March 20, 1998

ECS
 200 River Front Drive
 Detroit, MI 48226

MKI Report Number: 4604
 MKI Sample Number: 013610

Project Name: Rouge Steel Co.
 Project Number: n/a

Date Submitted: 03/19/98
 Purchase Order: n/a

Sample Description: Waste Rolling Solution - Tandem mill oil
 Collection Date: 03/19/98

| Parameters | Results | Units | MDL | Method | Analysis Date | Analyst |
|--|---------|-------|--------|--------|---------------|---------|
| Organo-Chlorine Pesticides/PCBs | | | | | | |
| Aldrin | ND | ppm | 0.0025 | 8080 | 03/20/98 | JDM |
| alpha-BHC | ND | ppm | 0.0025 | 8080 | 03/20/98 | JDM |
| beta-BHC | ND | ppm | 0.0025 | 8080 | 03/20/98 | JDM |
| gamma-BHC (Lindane) | ND | ppm | 0.0025 | 8080 | 03/20/98 | JDM |
| delta-BHC | ND | ppm | 0.0025 | 8080 | 03/20/98 | JDM |
| Chlordane | ND | ppm | 0.02 | 8080 | 03/20/98 | JDM |
| 4,4'-DDE | ND | ppm | 0.0025 | 8080 | 03/20/98 | JDM |
| 4,4'-DDE | ND | ppm | 0.0025 | 8080 | 03/20/98 | JDM |
| 4,4'-DDT | ND | ppm | 0.0025 | 8080 | 03/20/98 | JDM |
| Dieldrin | ND | ppm | 0.0025 | 8080 | 03/20/98 | JDM |
| Endosulfan I | ND | ppm | 0.0025 | 8080 | 03/20/98 | JDM |
| Endosulfan II | ND | ppm | 0.0025 | 8080 | 03/20/98 | JDM |
| Endosulfan sulfate | ND | ppm | 0.0025 | 8080 | 03/20/98 | JDM |
| Endrin | ND | ppm | 0.0025 | 8080 | 03/20/98 | JDM |
| Endrin aldehyde | ND | ppm | 0.0025 | 8080 | 03/20/98 | JDM |
| Endrin ketone | ND | ppm | 0.0025 | 8080 | 03/20/98 | JDM |
| Heptachlor | ND | ppm | 0.0025 | 8080 | 03/20/98 | JDM |
| Heptachlor epoxide | ND | ppm | 0.0025 | 8080 | 03/20/98 | JDM |
| Methoxychlor | ND | ppm | 0.05 | 8080 | 03/20/98 | JDM |
| Toxaphene | ND | ppm | 1.50 | 8080 | 03/20/98 | JDM |
| PCB -Arochlor 1016 | ND | ppm | 0.50 | 8080 | 03/20/98 | JDM |
| PCB -Arochlor 1221 | ND | ppm | 0.50 | 8080 | 03/20/98 | JDM |
| PCB -Arochlor 1232 | ND | ppm | 0.50 | 8080 | 03/20/98 | JDM |
| PCB -Arochlor 1242 | ND | ppm | 0.50 | 8080 | 03/20/98 | JDM |
| PCB -Arochlor 1248 | ND | ppm | 0.50 | 8080 | 03/20/98 | JDM |
| PCB -Arochlor 1254 | ND | ppm | 0.50 | 8080 | 03/20/98 | JDM |
| PCB -Arochlor 1260 | ND | ppm | 0.50 | 8080 | 03/20/98 | JDM |
| PCB -Arochlor 1262 | ND | ppm | 0.50 | 8080 | 03/20/98 | JDM |

Date Extracted: 03/20/98

Surrogate Recovery: Tetrachloro-m-xylene 77%

JDM



12610 Newburgh Road
 Livonia, Michigan 48150
 (313)591-1855, Fax (313)591-3331

ANALYTICAL REPORT

March 20, 1998

ECE
 200 River Front Drive
 Detroit, MI 48226

MEI Report Number: 4604
 MEI Sample Number: 013608

Project Name: Rouge Steel Co.
 Project Number: n/a

Date Submitted: 03/19/98
 Purchase Order: n/a

Sample Description: BO 60
 Collection Date: 03/19/98

| Parameters | Results | Units | REL | Method | Analysis Data | Analyst |
|--|---------|-------|--------|--------|---------------|---------|
| Organic-Chlorine Pesticides/PCBs in Water | | | | | | |
| Aldrin | ND | ppm | 0.0025 | 8080 | 03/20/98 | JDM |
| alpha-BHC | ND | ppm | 0.0025 | 8080 | 03/20/98 | JDM |
| beta-BHC | ND | ppm | 0.0025 | 8080 | 03/20/98 | JDM |
| gamma-BHC (Lindane) | ND | ppm | 0.0025 | 8080 | 03/20/98 | JDM |
| delta-BHC | ND | ppm | 0.0025 | 8080 | 03/20/98 | JDM |
| Chlordane | ND | ppm | 0.020 | 8080 | 03/20/98 | JDM |
| 1,4'-DDT | ND | ppm | 0.0025 | 8080 | 03/20/98 | JDM |
| 1,4'-DDE | ND | ppm | 0.0025 | 8080 | 03/20/98 | JDM |
| 1,4'-DDD | ND | ppm | 0.0025 | 8080 | 03/20/98 | JDM |
| Dieldrin | ND | ppm | 0.0025 | 8080 | 03/20/98 | JDM |
| Endosulfan I | ND | ppm | 0.0025 | 8080 | 03/20/98 | JDM |
| Endosulfan II | ND | ppm | 0.0025 | 8080 | 03/20/98 | JDM |
| Endosulfan sulfate | ND | ppm | 0.0025 | 8080 | 03/20/98 | JDM |
| Endrin | ND | ppm | 0.0025 | 8080 | 03/20/98 | JDM |
| Endrin aldehyde | ND | ppm | 0.0025 | 8080 | 03/20/98 | JDM |
| Endrin ketone | ND | ppm | 0.0025 | 8080 | 03/20/98 | JDM |
| Heptachlor | ND | ppm | 0.0025 | 8080 | 03/20/98 | JDM |
| Heptachlor epoxides | ND | ppm | 0.0025 | 8080 | 03/20/98 | JDM |
| Methoxychlor | ND | ppm | 0.0025 | 8080 | 03/20/98 | JDM |
| Toxaphene | ND | ppm | 1.50 | 8080 | 03/20/98 | JDM |
| PCB -Arochlor 1016 | ND | ppm | 0.50 | 8080 | 03/20/98 | JDM |
| PCB -Arochlor 1221 | ND | ppm | 0.50 | 8080 | 03/20/98 | JDM |
| PCB -Arochlor 1232 | ND | ppm | 0.50 | 8080 | 03/20/98 | JDM |
| PCB -Arochlor 1242 | ND | ppm | 0.50 | 8080 | 03/20/98 | JDM |
| PCB -Arochlor 1248 | ND | ppm | 0.50 | 8080 | 03/20/98 | JDM |
| PCB -Arochlor 1254 | ND | ppm | 0.50 | 8080 | 03/20/98 | JDM |
| PCB -Arochlor 1260 | ND | ppm | 0.50 | 8080 | 03/20/98 | JDM |
| PCB -Arochlor 1262 | ND | ppm | 0.50 | 8080 | 03/20/98 | JDM |



12610 Newburgh Road
Livonia, Michigan 48150
(313) 591-1055, Fax (313) 591-3331

ANALYTICAL REPORT

March 20, 1998

BCE
300 River Front Drive
Detroit, MI 48226

Project Name: Rouge Steel Co.
Project Number: n/a

MEI Report Number: 4604
MEI Sample Number: 013608

Date Submitted: 03/19/98
Purchase Order: n/a

Sample Description: RO 60
Collection Date: 03/19/98

| Parameters | Results | Units | NEL | Method | Analysis Date | Analyst |
|--------------------|---------|-------|------|--------|---------------|---------|
| PCE -Arochlor 1260 | ND | ppm | 0.05 | 8080 | 03/20/98 | JIM |

Reviewed By: 

ACIS ENVIRONMENTAL LABORATORIES

2616 CLIFFORD - DETROIT, MI. 48201
(313) 964-3119 FAX (313) 964-1203

SPECIALISTS IN ENVIRONMENTAL TECHNOLOGY

REPORT #: 1198-1102-2
REPORT DATE: 11-25-98

P.O.#: Verbal
PROJECT #: EP TOXICITY
EPA 40 CFR-261.4(b)
Table 1- SW 846
Rouge - Day #28
11-13-98 SP- 1 & 2

CLIENT: SRS ENVIRONMENTAL
111 Military
Detroit, MI 48209

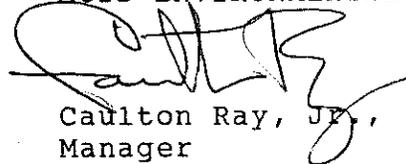
Attn: Mr. Gary Berndt

DATE RECEIVED : 11/13/98 DATE ANALYZED: 11/18/19/20/98 ANALYZED BY CR/DJ/RR

| <u>PARAMETER</u> EPA# | <u>METHOD</u> | <u>MDL/Mg/1</u> | <u>Reg. Limit</u> Mg/1 | <u>Results(Mg/1)</u> |
|---------------------------------|---------------|-----------------|---------------------------|----------------------|
| D-004 - Arsenic | 7060 | 0.001 | 5.0 | =1.0 |
| D-005 - Barium | 7080 | 0.10 | 100 | =1.0 |
| D-006 - Cadmium | 7130 | 0.005 | 1.0 | =0.1 |
| D-007 - Chromium | 7190 | 0.05 | 5.0 | =1.0 |
| D-008 - Lead | 7420 | 0.10 | 5.0 | =1.0 |
| D-009 - Mercury | 7470 | 0.0002 | 0.2 | =0.005 |
| D-010 - Selenium | 7740 | 0.002 | 1.0 | =0.2 |
| D-012 - Endrin | 7760 | 0.002 | 0.02 | N/D |
| D-013 - Lindane | 8080 | 0.001 | 0.4 | N/D |
| D-014 - Methoxychlor | 8080 | 0.005 | 0.5 | N/D |
| D-015 - Toxaphene | 8080 | 0.001 | 10.0 | N/D |
| D-016 - 2,4,D | 8151A | 0.05 | 10.0 | N/D |
| D-017 - 2,4,5,-TP (Silvex) | 8151A | 0.02 | 1.0 | N/D |
| D-020 - Chlorodane | 8080 | 0.005 | 0.03 | N/D |
| D-031 - Heptachlor +Epoxides | 8080 | 0.001 | 0.008 | N/D |

N/D Not Detected at Method Detection Limit
= Denotes Less Than.

ACIS ENVIRONMENTAL LABORATORIES


Caulton Ray, Jr.,
Manager

CR:rw

ACIS ENVIRONMENTAL LABORATORIES

2616 CLIFFORD - DETROIT, MI 48201
 (313) 964-3119 FAX (313) 964-1203

SPECIALISTS IN ENVIRONMENTAL TECHNOLOGY

No. 28

Chain of Custody

Analysis Request

| | | | | | | | | | | | | | | | | | | | | | | |
|---|--|---|--|---|--|--------------------------|--------------------------|--------------------------|-------------------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|---|
| 1 Consultant: <u>SDS</u> Serv. Sta#: _____ Sampler: <u>STAN JENKINS</u> Phone: <u>313-841-6445</u> Location: <u>TANK TRUCK</u> Phone: _____ | | 4 Matrix Soil _____ Water _____ Other _____ | | | 5 Analysis Requested EPA TEST PROGRAM | | | | | | | | | | | | | | | | | |
| 2 Sample Identification | | 3 Collection Date _____ Time _____ | | 3 Grab <input type="checkbox"/> | Composite <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 6 Remarks <u>OILY WASTE WATER MIX</u> |
| <u>ROUGE / EPA # 28</u> <u>TANDEM MILL</u> | | <u>11-13-98</u> | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| <u>ROUGE / EPA # 28</u> <u>SKIM P&S 1/2</u> | | <u>11-13-98</u> | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | | |

7 Turnaround time requested, (please circle): Emergency, Routine
 (Call to confirm Emergency turnaround time.)

Rush analysis results via:
 Fax#: 313-841-6446 -or- Phone: 313-841-6445

8 -This section MUST be signed each time the sample changes hands!-

| Relinquished by | Date | Time | Received by | Date | Time |
|-----------------|-----------------|------|---------------------|-----------------|------|
| <u>Ray Burt</u> | <u>11-13-98</u> | | <u>Stan Jenkins</u> | <u>11-13-98</u> | |
| | | | | | |
| | | | | | |

| Relinquished by | Date | Time | Received by | Date | Time |
|-----------------|------|------|-------------|------|------|
| | | | | | |
| | | | | | |

10 CONDITIONS OF SAMPLES UPON RECEIPT AT ACIS:

Sample Temp AM-3 Preserved?: _____ Damaged?: _____

Comments: 1198-01103

In case we have questions when the samples arrive, call:

Name: RAY D. BRNDT SDS Phone: 313-841-6445

Send report to: 111 MILITARY DETROIT, MI 48209

ACIS ENVIRONMENTAL LABORATORIES

2616 CLIFFORD - DETROIT, MI. 48201
(313) 964-3119 FAX (313) 964-1203

SPECIALISTS IN ENVIRONMENTAL TECHNOLOGY

REPORT #: 1198-1103
REPORT DATE: 11-25-98

P.O.#: Verbal
PROJECT #: EP TOXICITY
EPA 40 CFR-261.4(b)
Table 1- SW 846
Rouge - Day #29
11-16-98 SP-1 & 2

CLIENT: SRS ENVIRONMENTAL
111 Military
Detroit, MI 48209

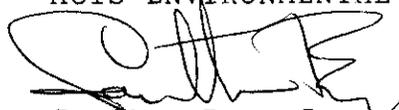
Attn: Mr. Gary Berndt

DATE RECEIVED : 11-16-98 DATE ANALYZED: 11/18/19/20/98 ANALYZED BY: CR/DJ/RR

| <u>PARAMETER</u> EPA# | <u>METHOD</u> | <u>MDL/Mg/1</u> | <u>Reg. Limit</u> Mg/1 | <u>Results (Mg/1)</u> |
|---------------------------------|---------------|-----------------|---------------------------|-----------------------|
| D-004 - Arsenic | 7060 | 0.001 | 5.0 | =1.0 |
| D-005 - Barium | 7080 | 0.10 | 100 | 2.3 |
| D-006 - Cadmium | 7130 | 0.005 | 1.0 | 0.12 |
| D-007 - Chromium | 7190 | 0.05 | 5.0 | =1.0 |
| D-008 - Lead | 7420 | 0.10 | 5.0 | =1.0 |
| D-009 - Mercury | 7470 | 0.0002 | 0.2 | =0.005 |
| D-010 - Selenium | 7740 | 0.002 | 1.0 | =0.2 |
| D-012 - Endrin | 7760 | 0.002 | 0.02 | N/D |
| D-013 - Lindane | 8080 | 0.001 | 0.4 | N/D |
| D-014 - Methoxychlor | 8080 | 0.005 | 0.5 | N/D |
| D-015 - Toxaphene | 8080 | 0.001 | 10.0 | N/D |
| D-016 - 2,4,D | 8151A | 0.05 | 10.0 | N/D |
| D-017 - 2,4,5,-TP (Silvex) | 8151A | 0.02 | 1.0 | N/D |
| D-020 - Chlorodane | 8080 | 0.005 | 0.03 | N/D |
| D-031 - Heptachlor +Epoxides | 8080 | 0.001 | 0.008 | N/D |

N/D Not Detected at Method Detection Limit
= Denotes Less Than.

ACIS ENVIRONMENTAL LABORATORIES


Caulton Ray, Jr.,
Manager

CR:rw

ACIS ENVIRONMENTAL LABORATORIES

2616 CLIFFORD - DETROIT, MI 48201
 (313) 964-3119 FAX (313) 964-1203

SPECIALISTS IN ENVIRONMENTAL TECHNOLOGY

No. 29

Chain of Custody

Analysis Request

| 1 Consultant: <u>SRS</u> Serv. Staff: _____ Sampler: <u>STAN JENKINS</u> Phone: <u>313-841-6445</u> Location: <u>TANK TRUCK</u> Phone: _____ | | 4 Matrix Soil _____ Water _____ Other <input checked="" type="checkbox"/> | | 5 Analysis Requested EPA 1287 PROGRAM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-----------------|---|-------------|--|------|---------------------------------|--|---|--|-----------------|------|------|-------------|------|------|------------|-----------------|--|-------------|-----------------|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 2 Sample Identification <u>(ROUG2/EPA #29)</u> <u>(SKIM PASS 1/0)</u> | | 3 Collection Date: <u>11-16-98</u> Time: _____ | | Grab <input type="checkbox"/> Composite <input checked="" type="checkbox"/> | | Total # of Containers: <u>1</u> | | Remarks 6 <u>OILY WASTE WATER MIX</u> | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 Turnaround time requested, (please circle): Emergency, Routine (Call to confirm Emergency turnaround time.) Rush analysis results via: Fax#: <u>313-841-6446</u> -or- Phone: <u>313-841-6445</u> | | | | 8 -This section MUST be signed each time the sample changes hands!- <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Relinquished by</th> <th>Date</th> <th>Time</th> <th>Received by</th> <th>Date</th> <th>Time</th> </tr> </thead> <tbody> <tr> <td><u>BWR</u></td> <td><u>11-16-98</u></td> <td></td> <td><u>M...</u></td> <td><u>11-16-98</u></td> <td></td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table> | | | | | | Relinquished by | Date | Time | Received by | Date | Time | <u>BWR</u> | <u>11-16-98</u> | | <u>M...</u> | <u>11-16-98</u> | | | | | | | | | | | | | |
| Relinquished by | Date | Time | Received by | Date | Time | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <u>BWR</u> | <u>11-16-98</u> | | <u>M...</u> | <u>11-16-98</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 10 CONDITIONS OF SAMPLES UPON RECEIPT AT ACIS: Sample Temp: <u>AMP</u> Preserved?: _____ Damaged?: _____ Comments: <u>11/18/98 51108</u> | | | | 9 <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Relinquished by</th> <th>Date</th> <th>Time</th> <th>Received by</th> <th>Date</th> <th>Time</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table> | | | | | | Relinquished by | Date | Time | Received by | Date | Time | | | | | | | | | | | | | | | | | | |
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| | | | | In case we have questions when the samples arrive, call: Name: <u>GARY D. BRANDT SRS</u> Phone: <u>313-841-6445</u> Send report to: <u>111 MILITARY DETROIT, MI 48209</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

ACIS ENVIRONMENTAL LABORATORIES

2616 CLIFFORD - DETROIT, MI. 48201
(313) 964-3119 FAX (313) 964-1203

SPECIALISTS IN ENVIRONMENTAL TECHNOLOGY

REPORT #: 1198-1104-1
REPORT DATE: 11/25/98

P.O.#: Verbal
PROJECT #: EP TOXICITY
EPA 40 CFR-261.4(b)
Table 1- SW 846
Rouge - Day #30
11/17/98
SP - 1 & 2 3500 Gal.

CLIENT: SRS ENVIRONMENTAL
111 Military
Detroit, MI 48209

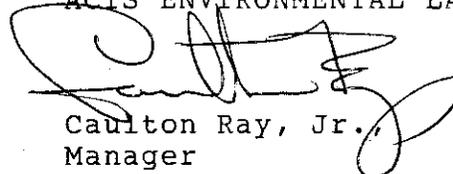
Attn: Mr. Gary Berndt

DATE RECEIVED : 11/17/98 DATE ANALYZED: 11/18/19/20/98 ANALYZED BY: CR/DJ/RR

| <u>PARAMETER</u> EPA# | <u>METHOD</u> | <u>MDL/Mg/l</u> | <u>Reg. Limit</u> Mg/l | <u>Results (Mg/l)</u> |
|---------------------------------|---------------|-----------------|---------------------------|-----------------------|
| D-004 - Arsenic | 7060 | 0.001 | 5.0 | =1.0 |
| D-005 - Barium | 7080 | 0.10 | 100 | =1.0 |
| D-006 - Cadmium | 7130 | 0.005 | 1.0 | =0.1 |
| D-007 - Chromium | 7190 | 0.05 | 5.0 | =1.0 |
| D-008 - Lead | 7420 | 0.10 | 5.0 | =1.0 |
| D-009 - Mercury | 7470 | 0.0002 | 0.2 | =0.005 |
| D-010 - Selenium | 7740 | 0.002 | 1.0 | =0.2 |
| D-012 - Endrin | 7760 | 0.002 | 0.02 | N/D |
| D-013 - Lindane | 8080 | 0.001 | 0.4 | N/D |
| D-014 - Methoxychlor | 8080 | 0.005 | 0.5 | N/D |
| D-015 - Toxaphene | 8080 | 0.001 | 10.0 | N/D |
| D-016 - 2,4,D | 8151A | 0.05 | 10.0 | N/D |
| D-017 - 2,4,5,-TP (Silvex) | 8151A | 0.02 | 1.0 | N/D |
| D-020 - Chlorodane | 8080 | 0.005 | 0.03 | N/D |
| D-031 - Heptachlor +Epoxides | 8080 | 0.001 | 0.008 | N/D |

N/D Not Detected at Method Detection Limit
= Denotes Less Than.

ACIS ENVIRONMENTAL LABORATORIES


Caulton Ray, Jr.,
Manager

CR:rw

SPCC

The extent of the chemical and/or materials composition, concentration and possible reactions of mixtures is quite large in volume and is contained in SYBILL's MSDS file located at the facility.

C. Quantities

Total volumes (maximum) and units on a monthly basis are shown in the table below.

| Material | Maximum Capacity | Anticipated Volume Usage |
|----------------|------------------|--------------------------|
| Caustic Soda | 6,000 gallons | > 5,000 gallons |
| Polymer | N/A | < 380 gallons |
| Weak Sulfuric | 5,000 gallons | > 2,500 gallons |
| Conc. Sulfuric | 500 gallons | > 100 gallons |
| Lime | 10 tons | < 5 tons |
| Waste Water | 24,750,000 gal | < 3,250,000 gal |
| Recycled Oil | 500,000 gallons | <250,000 gallons |

D. Site plan or diagram of material storage (including storage and use areas, underground storage tanks, floor drains, loading docks, sump pumps, on-site water supply, secondary containment, etc.)

Reference Appendix " D ".

III. Storage Tanks 40 CFR 112.7 (e)(2)

A. Above ground storage tanks

1. Tank construction details.

The following matrix is a summary of the tank particulars.

| | Tanks 1 & 2 | Tanks 3 & 4 | Tank 5 | Tanks 11 & 12 |
|-------------------------------|------------------|----------------|----------------|----------------|
| Construction: | Steel Closed top | Steel Covered | Steel Open top | Steel Closed |
| Date of Construction: | 1972 | 1967 | 1967 | 1994 |
| Manufacturer: | Caldwell Tanks | Chicago B & I | Chicago B & I | G & M |
| Size: | 35'W 40'H | 64'W 15'H | 44'W 15'H | 30'L 10'H |
| Volume: | 250,000 gallons | 36,000 gallons | 17,000 gallons | 30,000 gallons |
| Coating: | | | | |
| Exterior: | Paint | Paint | Paint | Paint |
| Interior: | | Fiberglass | Fiberglass | |
| Loading/Unloading Procedures: | 4" trash pump | 4" trash pump | 4" trash pump | 4" trash pump |

SPCC

| | | | | |
|-------------------------------|---|-----------------|-----------------|---------------------|
| Special Devices: | Heat Coils | Stirring blades | Stirring blades | Heat Coils |
| Overfill protection: | Mechanical | Mechanical | Mechanical | Mechanical |
| Air Control: | Carbon Cans | Carbon Cans | N/A | A/C System |
| Secondary Containment: | Concrete wall Concrete and fiberglass floor | Same | Same | Pitch/Grade Sump |

| | Tanks 9 & 14 | Tank 10 | Tanks 15-17 | Tanks 20-25 |
|--|---------------------|---------------------|---------------------|---------------------|
| Construction: | Steel Closed | Steel Closed | Steel Closed | Steel Closed |
| Date of Construction: | 1994 | 1994 | 1994 | 1994 |
| Manufacturer: | G & M | G & M | G & M | Unknown |
| Size: | 20'L 15'H | 10'W 20' H | 12'W 20'H | 10'W 20'H |
| Volume: | 25,000 gallons | 10,000 gallons | 15,000 gallons | 20,000 gallons |
| Coating: | | | | |
| Exterior: | Paint | Paint | Paint | Paint |
| Interior: | | | | |
| Loading/Unloading Procedures: | 4" trash pump | 4" trash pump | 4" trash pump | 4" trash pump |
| Special Devices: | Heat Coils | | Heat Coils | |
| Overfill protection: | Mechanical | Mechanical | Mechanical | Mechanical |
| Air Control: | A/C System | A/C System | A/C System | A/C System |
| Secondary Containment: | Pitch/Grade Sump | Pitch/Grade Sump | Pitch/Grade Sump | Pitch/Grade Sump |

| | Tank 18 | Tank 19 | Tanks S3-S4 | |
|--|---------------------|-----------------|---------------------|--|
| Construction: | Steel Closed | Steel Closed | Steel Closed | |
| Date of Construction: | 1994 | 1994 | 1994 | |
| Manufacturer: | Unknown | Unknown | Unknown | |
| Size: | 15'W 205'H | 18"L 12'H | 10'W 10'H | |
| Volume: | 18,000 gallons | 18,000 gallons | 8,000 gallons | |
| Coating: | | | | |
| Exterior: | Paint | Paint | Paint | |
| Interior: | | Glass Lined | | |
| Loading/Unloading Procedures: | 4" trash pumps | 4" trash pumps | 4" trash pumps | |
| Special Devices: | | | | |
| Overfill protection: | Mechanical | Mechanical | Mechanical | |
| Air Control: | A/C System | A/C System | | |
| Secondary Containment: | Pitch/Grade Sump | N/A | Pitch/Grade Sump | |

40 CFR 112.7.(VIII)(A)

SPCC

Overfill protection for each tank includes, mechanical, and or audio/visual signal devices. All pumps or tankers must be shut down if visual signal devices are released. Signal devices are float type units which must be inspected daily. Non-functioning units will be repaired and recorded in the operators log book.

2. Secondary containment (b)

All tanks in the facility are contained. Exterior tanks have retaining wall containments and tanks within the processing facility are contained by the building and the "tipping floor" as described below.

Tanks 3,4 & 5

Containment for this area of the facility is accomplished by an 8' high 9" thick reinforced concrete wall. In addition splash guards have been installed on the concrete wall. Total containment volume exceeds 550,000 gallons and surpasses regulation of one and one-half times the volume of the largest tank (360,000 gals).

All drains have been back filled with concrete to preclude their use. The flooring of the containment area is concrete reinforced with fiberglass. The perimeter of the containment area is 77.5'X75' + 10'X75' + 59.5' X 127.5' or 14,148 square feet.

Tanks 1&2

Containment for this area of the facility is accomplished by an 6' high 10" thick reinforced concrete wall. The perimeter of each storage area is 85'X80' and containment volume exceeds 305,000 gallons. There are no drains within this containment. The containment area flooring is concrete reinforced with fiberglass.

Tanks 9, 14, 10, 11, 12, 15-17, 20-30, 18

These tanks are inside the Processing Building. The ground floor has a 5' concrete block wall which turns to sheet metal on iron framework. This building has a concrete "tipping" floor. All drainage is contained in an isolated sump hole in the center of the "tipping" floor and our pumps discharge any spillage into the treatment tanks.

Piping and valves

- (1) Piping and valves shall be inspected daily/weekly for damage or corrosion. Heat trace and insulated lines need to be repaired as soon as any damage is found, to avoid freezing of lines. Pipe lines at this facility do not require to be cataodically protected, also no piping systems are located below grade/underground.
- (2) Pipelines which have been removed from service for extended periods must be capped and or blank-flanged. All pipelines within the facility must be marked i.e., oil, gas, water.
- (3) All pipe supports within the facility are permanent type hard welds expansion/contraction is limited on lines. Abrasion is not a concern with this type of support. Lines are inspected daily/weekly.

SPCC

Pipelines and valves in the facility do not require pressure testing. Each pipeline and valve will be tested/examined daily and weekly. Testing and examination will include all flange joints, expansion joints, valve glands, and supports.

3. Maintenance

Daily inspections are conducted to verify that the containment areas are in tact and that no spillage is occurring. Rain water and snow melt water will be monitored daily and pumped into treatment tanks. The topography of the facility precludes flooding.

B. Underground storage tanks

There are no underground storage tanks at this facility.

C. Effluent Water 40 CFR 112.7 (ix)

SRS does not discharge pretreated wastewater effluent into navigable waters. All effluent waters are discharged to the local POTW for additional treatment (City of Detroit system).

IV. Storage Buildings, Warehouses, Production Buildings, Loading Docks

A. Description (construction materials)

1. Powerhouse building

This building is a 17,000 square foot five story powerhouse building constructed in 1952 of block and brick over a steel girder frame. This building is not in use for processing or storage.

Lab Building

This is a 4,000 square foot building constructed in 1966 of block and brick over a steel girder frame. All potential spill pathways within the entire complex are tied into a self contained drainage and pump system which can pump any liquids into tanks 3 and 4. As noted above, former storm drains within tanks 3, 4 and 5 were back-filled with concrete to preclude accidental discharge. This building currently houses our analytical laboratory on the second floor plus an employee break area. Other than normal laboratory and cleaning supplies, chemicals are not contained within this structure and thus spillage is precluded.

Processing Building

This is a 16,000 square foot, 3 story building built in 1984. This former incinerator building is constructed with "knee" walls of concrete, six feet tall, upon which a steel girder framing system is attached. The walls and ceiling are fabricated from corrugated steel sheets. This building encloses a reinforced concrete "tipping" floor. The floor tilts from all angles to a 10 foot deep sump hole located in the center of the floor. No other drains exist. The sump hole is used to catch any spilled liquids. The in-plant pumps are then used to pump these spills back into the process tanks located within this building.

RCRA Used Oil Specific

1. For the shipment to Edwards Oil Service on MI manifest 7766184, provide arsenic, cadmium, chromium, lead, total halogens, and flash point analyses for batch 41694. Also, provide the total halogen analyses and rebuttal information for incoming waste streams that were treated to yield this shipment.

2. For the following customers, jobs, and work orders, describe the waste characterization process employed by Sybill prior to placement of the waste in tanks at Sybill. Support your answer with representative waste characterization documents for each customer (used oil generator). Specifically, why was BSW not determined and/or not reported for each shipment during the period from June 1, 1999 to March 27, 2000? (Reference tracking reports provided to U.S. EPA inspectors on March 28, 2000.)

115 Nelson Metal Products
413 Nelson Metals-Waste Water Pump Out
2645 Standing Work Order

351 City of Detroit
all jobs and work orders

439 Alpha Stamping
170 pump out pits and totes
3202 Pump out pits and totes

439 Alpha Stamping
170 pump out pits and totes
3226 Standing Work Order

442 Oscar W. Larson Company
174 Drop-off for Disposal - Wastewater and waste oil
1274 standing work order for waste water and waste oil

501 Metal Working Lubricants
346 GMC Blanket - GM PTG Livonia
2926 Inland Waters to Drop 20 Yd Vacuum sludge box at plant for processing - sta

501 Metal Working Lubricants
349 GMC Blanket - Lansing (LAD)
2366 Standing Work Order for GMC-LAD Plant 6 Drums Dropped off by Inland Wat

501 Metal Working Lubricants
409 Oily Waste Pickup from Lake Orion Plant
2639 Oily Waste Pickup - Standing Work Order

529 Waste Management Industrial Services
321 Oil/Water Pickup
1997 Standing Work Order - "Water from SRS into SRS" (2000) (somewhat different for 1999)

529 Waste Management Industrial Services
322 Mineral Oil Wastes
1980 Standing work order - pump out used oil frm various sites at complex

554 North American Environmental Corp.
443 Transport and Disposal of Rinse Water
3469 5K Vac Truck with 100 Feet of Hose

569 Steel Technologies
446 trans. and dispose of waste oil
3382 See Dan Rubino or Rich Meddy First, they will show you the inside pit they w

572 LTV Steel - Cleveland Works
439 LTV-Recycled Oil In and Used Out
3036 Standing Work Order - Used Oil Out of LTV

577 Michigan Recovery Systems, Inc.
454 Transport and Disposal of Oily Sludge from Warren
3173 Transport and Disposal of Oily Sludge

580 Manfredi Motor Transit Co.
462 Disposal of Waste Water
3317

584 Capital Environmental
465 transp. and disposal of non-haz. waste oil and water
3422 10,000 gallon tanker to pump out waste oil

585 Waste Management, Inc.
468 Pump out drums of used oil/coolant
3461 Standing Work Order Pump Out 40 or More drums of used oil and coolant

586 Everclear
470 Deliver/Receive Used Oil
3516 Standing Work Order for receipt/delivery of used oil from/to Ohio plant

589 American Ultra Specialties
471 disposal of liquid waste
3612

98 Rouge Steel

1 Wastewater Removal and Disposal
37 Tandem Mill Water - Large Tanker - Standing Work Order

- 3) To the extent that the total halogen concentration is available for incoming waste streams, identify all incoming wastestreams with total halogen concentrations above 1,000 ppm.
- 4) For all concentrations of total halogens over 1,000 ppm in incoming wastestreams, rebut the presumption that the used oil was mixed with a halogenated hazardous waste.
- 5) For all outbound shipments of used oil fuel, for the period from June 1, 1999 to March 27, 2000, cross-reference the record of used oil analysis or other information used to make the determination that the oil meets the specifications for arsenic, cadmium, chromium, lead, total halogens, and flash point. (Records of used oil fuel analysis have been provided, but the method of cross-referencing with tank-specific analyses and shipments from specific tanks was not demonstrated to U.S. EPA RCRA inspectors on March 27 and 28, 2000.) A photocopy of pages from an operating log book listing the tank & sampling date, tank from which shipped, analysis number, shipper/bill of lading/manifest number, transporter, and used oil fuel recipient would suffice, if it exists. Alternatively, if this information is included in the tracking report provided on March 28, 2000, please direct our attention to the appropriate fields.

TSCA Waste Oil Specific (see 40 CFR 761.3 and 761.20)

- 6) For all concentrations of total halogens over 1,000 ppm in incoming wastestreams and outbound fuel shipments, provide your determination that PCBs are not present at levels above 2 ppm. (Documents submitted in response to previous questions may be referenced.)

F:\user\sbrauer\usedoil\sybill\info request questions.wpd, 07/19/00SRB